



JULY 1991



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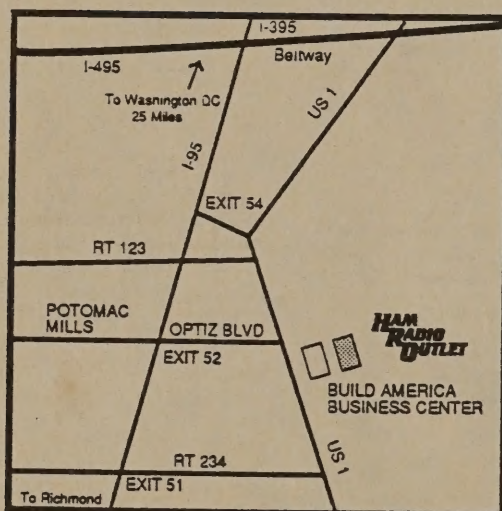
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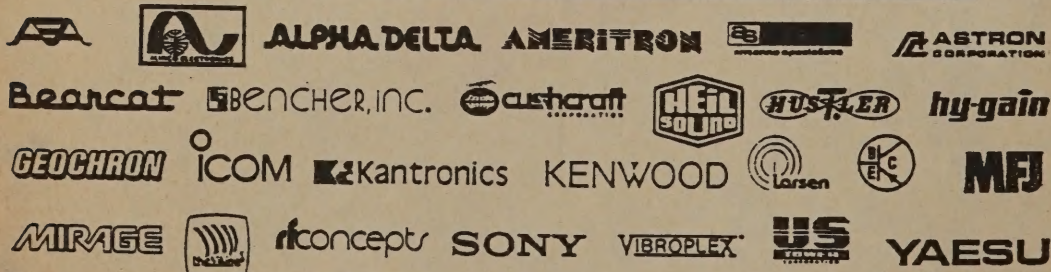
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PRESIDENT'S CORNER

By Phil Russo - N3GDD

President, Foundation for Amateur Radio.

I would like to take advantage of this column this month to announce the appointment of a new Corresponding Secretary for the Foundation. Last year we sadly accepted the resignation of Irene Akers - W3RXJ and we have been searching for a replacement ever since. In the mean time our Recording Secretary, Joe Seasely - KA3UZI has been reluctantly carrying on the work in a "custodial" capacity. After careful deliberation and consultation with the executive board we have decided to appoint Ethel Smith - K4LMB as the Corresponding Secretary for the Foundation.

You know the old saying about, 'If you want a job done, ask a busy person to do it.' Well, Ethel is a busy person! She was one of the original Trustees when FAR was started back in 1957, and she is the only one of the original trustees who is still active in the area. And active in a big way, I might add. She served as FAR Secretary for a number of years, as 2nd Vice President for one term and as Trustee the rest of the time. She has also been involved with the Auto-Call since 1953 and has been Editor off and on since 1971. This time she has been with it for 5 years and somehow manages to improve it in some small way every month.

I've seen the editing room in her home. It's almost funny when you consider the end product and it's humble beginning each month. The room is a tiny spare bedroom filled with computer equipment and printers and files, files, files. And as you walk in, the first thing you notice are the post-it notes on the curtains and the sides of the desk. Our Ethel Smith is by far one of the most organized people I know.

It has been a long hard search to fill Irene's shoes, she's a hard act to follow, but I think we have the one who can do it. This is a 5 year appointment and I would like to thank Ethel for accepting this position and allowing me to rest comfortably, knowing that the responsibility is in good hands.

'Till next time.....73's

Phil - N3GDD

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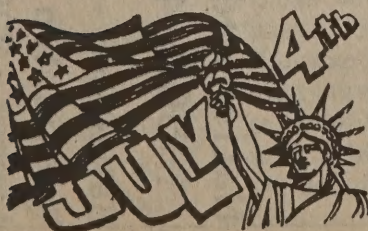
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Coming Events

- Jun 29** **WVA ARRL State Convention**
- Jul 6-7** **West Virginia State Convention, Jackson's Mill**
Jul 27 **ARRL Educational Workshop, Goddard SFC (See page 13)**
Jul 28 **BRATS Maryland Hamfest, Timonium (See flyer on page 31)**
- Aug 4** **Winchester Hamfest, Berryville, VA See flyer on page 35)**
Aug 9 **Gallups Island Radio Association National Reunion, Minneapolis, MN**
Aug 17-18 **Maryland-DC QSO Party (See page 45)**
Aug 23-25 **ARRL National Convention, Saginaw, MI**
Aug 25 **Southern Patuxent Hamfest, Upper Marlboro, MD (See page 36)**
- Sep 8** **Gaithersburg F.A.R.FEST, Foundation for Amateur Radio. (See page 8)**
Sep 14-16 **VHF QSO Party**
Sep 21-22 **ARRL Roanoke Division Convention, Virginia Beach, VA**
Sep 21-22 **York Hamfest, York, Pennsylvania**
Sep 27-28 **QCWA National Convention, Canton, OH (See page 46)**
Sep 31 **Shelby, NC Hamfest**
- Oct 13** **Howard County CARA Hamfest**
Nov 2-4 **CW Sweepstakes**
Nov 16-18 **Phone Sweepstakes**
Nov 24 **Mason-Dixon Hamfest, Westminster, MD**
Dec 6-8 **160 Meter Contest**
Dec 14-15 **10-Meter Contest**

Please keep Auto-Call advised of important Coming Events.
We are anxious to provide our readers with timely information
and help you avoid possible conflicts when scheduling activities.

We can use all the help we can get!



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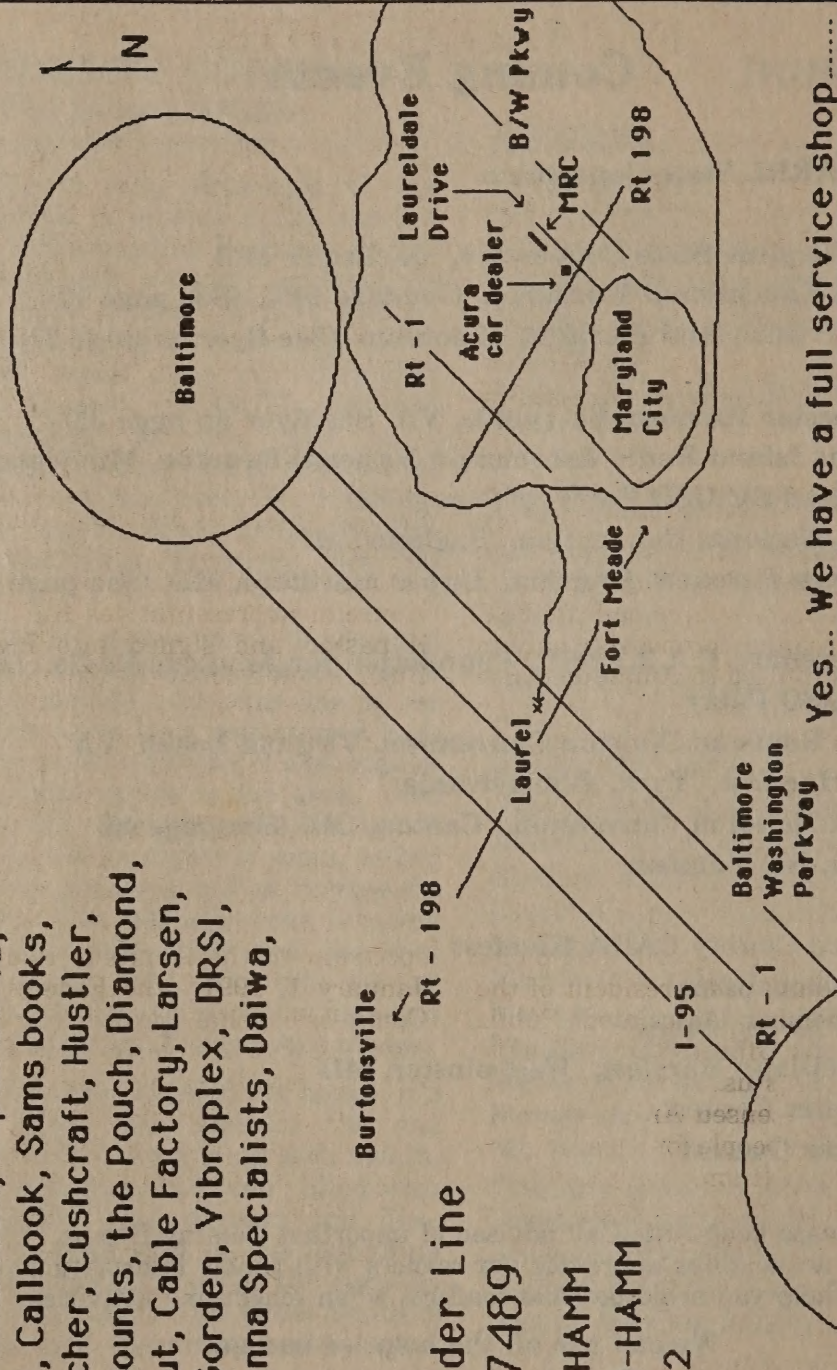
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FCC HIGHLIGHTS

by Bill Grenfell W4GF

As (W5YI) "... previously reported, the FCC in PR Docket 91-36 is studying whether to pre-empt local and state laws that forbid possession of radio equipment capable of receiving public safety bands (police, sheriff, fire, EMS, etc.)" The inquiry was prompted by a request from the ARRL. Reports indicate that some hams who own scanners or extended-band reception Amateur gear have been harassed by local authorities. "The FCC could, if it desires, pre-empt and nullify the local laws if it finds that they preclude normal Amateur activities. "The FCC could pre-empt only for licensed Amateurs, or for all citizens. But it proposed only to pre-empt the laws for Amateur licensees." ... "Many have telephoned the FCC to find out about its scanner proposals, only to be told the inquiry is limited to Amateur transceivers only." Comments on the rule-making (Docket 91-36) were due June 7 for original comments and July 8 for replies.

(W5YI Report May 15, 1991)

Some interesting and provoking comments have been filed in response to FCC's (Docket 91-36) proceeding, some of which follow: George W. Murray - WB4DYQ, who is a police officer and the immediate past president of the more than 8,000 member Associated Public Safety Communications Officers, Inc.: "I have a problem with criminals using radio to facilitate a crime, but not licensed Amateur Radio operators. "Let's punish people for breaking the law, not just listening." (I am) "offended to be told that, because I am using my hobby I am a criminal. But only in my vehicle. "As a general rule, people who listen to public safety frequencies are interested in what is occurring in their immediate area." "The vast majority of law enforcement officers do not know the difference between Amateur Radio, public safety radio and private radio frequencies. Their expertise ends with pushing the push-to-talk button of their assigned radio.

(W5YI Report June 1, 1991)

During the last week in May, 1991, the FCC circulated a Public Notice to the effect that "Amateur operation in the 220-222 MHz band is prohibited after August 27, 1991. "Nearly

three years ago, the FCC separated the shared 220-225 MHz band into exclusive allocations. Rather than have the Fixed, Land-Mobile Service and Amateur Service share the five Megahertz, the Commission reapportioned 220-to-222 MHz to narrow-band business use and 222-225 MHz exclusively to the Amateur Service. (W5Y Report, June 1, 1991)

The Amateur Radio Spectrum Protection Act of 1991 is an ARRL-endorsed bill, now before Congress, which is designed to hopefully protect Amateurs from arbitrary and capricious spectrum reallocation by the Federal Communications Commission. Originally designated as House of Representatives Bill HR-73, the Act, if passed and signed into law by President Bush, would force the Commission to provide equal compensatory spectrum to the Part 97 Amateur Radio Service for any removed and reallocated for other use. HR73 was authored by Tennessee Congressman Jim Cooper with the active participation of the American Radio Relay League. The key passage in the bill is: "The Federal Communications Commission shall not diminish existing allocations of spectrum to the Amateur Radio Service after January 1, 1991, the Federal Communications Commission shall provide equivalent replacement spectrum to the Amateur Radio Service for any frequency reallocation made after January 1, 1991." Getting HR-73 passed and signed into law will not be easy, but it has gained bipartisan cosponsorship (support) from eighty-four Congressmen. (W5YI Report, June 1)

When the Electronic Communications Privacy Act (ECPA) became law in 1986, many Amateurs and communications hobbyists were shocked at its strange and contradictory provisions. Amateur Radio, GMRS and Business Radio were exempted from its reach after considerable lobbying by ARRL and users in those services. But the law remains on the books, and now a group of consultants association executives and former Congressional staff members wants to extend the reach of ECPA to cover more kinds of radio. Currently the ECPA prohibits reception of various kinds of radio transmissions such as conventional mobile telephone and voice and data paging are off

FCC Highlights - Continued

limits. Even non common-carrier radio services may be verboten if they are owned by common carriers, but the same transmissions made over non-common carrier carrier owned transmitters may be legally received. In a new report to the Senate, the "Privacy and Technology Task Force" asks to remove the exemption for cordless telephones. That is, monitoring of cordless communications would become illegal even if the signals are transmitted "in the clear" and picked up on ordinary receivers.

In response to an inquiry by U. S. senator Ted Stevens of Alaska, FCC Private Radio Bureau Deputy Chief Beverly Baker and Chief Ralph Haller/N4RH have affirmed that new power limits on hams or frequency reallocations are not planned. (W5YI Report, June 1)

FCC figures for April show 5,749 new Amateur licenses issued as well as 3,239 upgrades. Since the codeless Technician class license was born on Feb. 14, more than four thousand new Amateurs have joined our ranks as Techs. (ARRL Letter, May 30)

The FCC's Grand Island, Nebr. Field Operations Bureau has canceled a \$2,000 fine levied against the Pine Ridge Amateur Radio Club. The fine, ordered March 20 for the club's use of donated space on a commercial tower that was found in violation of lighting standards, was the second levied by Engineer-in-Charge James H. Berrie Jr., N0BJW (the first against the Grand Island Amateur Radio Society, was ordered "held in abeyance" on Mar. 25; see June QST, p. 58). (ARRL Letter, May 30)

Here is the latest (May 10) list of intruders in HF Amateur Radio bands that the ARRL has asked the FCC's Treaty Branch to pursue with the U.S. and other countries:

1802-1819	A2A, Non-Amateur beacons
14221	F1B, Daily interference
18095.5	F1B, Idling, encrypted traffic
18152	F1B, Non-amateur idling and ttc.

Also, daily interference from over-the-horizon radars on 14007, 14026, 14133, 18071.3, 18114.5, 21000, 21060, 21163, 21196.6, 21257, 21260, and 21368 kHz. (ARRL Letter May 30)

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American Radio Relay League Report

By John Swafford - W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

Washington State Amateur Hailed in Sea Rescue. A Washington state Amateur has been credited with saving the lives of two boaters and in the process strengthening ties between local Amateurs and their police department.

Ev Paschal - KF7VX lives on tiny (1 x 2 mile) Sinclair Island, near Anacortes, Washington. Sinclair Island has neither electric nor telephone service. On the windy morning of April 3, Paschal was getting ready for his daily schedule with hams on nearby Guemes and Fidalgo Islands, when he saw a 20-ft. powerboat dead in the water near his house.

"I got out my telescope for a better look," Paschal said, "and there was a guy in the water, clinging to an overturned dinghy."

Paschal used 2 meters to call Les Killingsworth - W7IDX on Whidby Island, then informed Bob Brown - NM7M on Guemes, who telephoned the U.S. Coast Guard.

"With our repeater on Mt. Erie, ham radio is more reliable than marine radio," Paschal said.

Paschal launched his own boat, and as he did he saw a 12-year-old boy launching a dinghy. That turned out to be Nathan Nusslock, who was on his way to help his father, Mark Nusslock, who was in the water, the *Anacortes American* reported.

Paschal took both father and son aboard his boat and returned them to shore, cold and wet but unharmed.

Paschal, who is 45 and president of the Radio Amateurs of Skagit County, received a plaque from the Anacortes Police Department for his rescue effort.

"I wish to convey my thanks and offer congratulations," said Anacortes Chief of Police Tony Lippe, "on your life saving effort off Sinclair Island this past month.

"As you know," Lippe said, "the Anacortes Police Department is endeavoring to establish

an emergency communication network with the local chapter of the Radio Amateurs of Skagit County. We are still in the planning stage [and proposed equipment] would allow our Department and the Amateur Radio operators to work together to further serve the needs of our community.

"I firmly believe that Amateur Radio operators are a most valuable resource," Chief Lippe said, "and are unsurpassed in their expertise and dedication where emergency communications are needed that are above the normal channels readily available to law enforcement."

Ev Paschal moved to Sinclair Island three years ago after two decades as a research associate at Stanford University. He holds a doctorate in electrical engineering from Stanford and is now doing research in very low frequencies and "whistlers."

"I moved here for the radio quiet," he says. "The nearest power line is five miles away," an important consideration for someone listening to frequencies between 300 hertz and 30 kHz.

Sinclair Island has six year-round residents, Paschal says. More come to visit during the warmer months; two of them have Paschal to thank for being rescued.

Hamvention Ham Happens on Big Bucks. A Chicago-area Amateur has been reunited with the \$1,700 he misplaced at the 1991 Dayton HamVention, and the ham who found the 17 one-hundred-dollar bills has been given a new hand-held transceiver by ICOM America.

Mike Freitag - N9CRN of Palos Park, Ill., was the unlucky exhibitor who dropped an envelope containing the \$1,700 at the HamVention flea market. Freitag, discovering his loss, reported it to Hara Arena authorities and promptly left for home.

The envelope was found a short time later, on Saturday morning, by John Raifsnider - WA8OKA of Sturgis, Mich.

ARRL Report - Continued

"Every year I go to the HamVention with two friends," Raifsnider said, "one a lawyer and the other a local town official. The three of us saw how much money was there and went looking for a cop."

They reported the loss to Madison Township Detective Rick Wright, who was in the Hara Arena (site of the HamVention) parking lot. The found money was soon linked to Freitag's reported loss, and Freitag was located, via 2-meters, near Indianapolis en route home.

"This is police officer Wright," the cop told Freitag, "but you can call me Santa Claus."

John Raifsnider, 41, is a tool and die maker in Sturgis. When contacted by ICOM's Amateur Division Manager Chuck Northcutt - W7SRZ, Raifsnider was offered his choice of an HT from the company's line.

The finding and return of the money had been announced during the prize drawing at the HamVention, and was greeted with a round of applause.

"I chose just an IC2SAT," Raifsnider said. "One of the multi-band HTs would have had a higher dollar value but 2-meters suited me fine."

Beware of Suspicious New Gear. Amateur Radio equipment stolen from a Manhattan retailer may have appeared for sale recently at at least one hamfest.

On April 21, New York's Barry Electronics was the victim of an armed robbery, the second time this year the store has been victimized (the first robbery occurring Feb. 28). Only new equipment was taken, both ham gear and some commercial two-way radios, according to a Barry saleswoman.

Two weeks later, on May 4, some of the gear apparently showed up at the Hoss Trader's flea market in Deerfield, NH. Several Amateurs at the flea market became suspicious when they saw factory-fresh radios for sale, complete with Barry Electronics identification.

According to Deerfield chief of police Robert Dalessandro, local sheriffs at the flea market were able to identify the van, a rented Chevrolet, from New York police reports. They then telephoned the NYPD but were unable to obtain serial numbers of the stolen radios to

attempt to match with the merchandise found with the two men (both NYC residents) in the van.

The two men were released and left the flea market early Saturday morning.

Chief Dalessandro noted that the men were cooperative with authorities, and observed that they might have been unknowing accomplices.

"Flea markets are a boon for selling stolen material," Dalessandro observed, and Amateurs should beware of new gear for sale at such events.

City: Steeples, No; Towers, Yes.

(By Cal Turner - WI6S) The city of Sedona, Ariz., lies in one of the most picturesque areas in the state. Its population is 7,700, with an annual tourist influx of three million.

The city, incorporated in 1988, and the city council and planning commission have been grinding away ever since at ordinances to protect the environment. Within the city limits there are approximately 40 hams.

During negotiations for city ordinances, a ban on transmitter stations and towers in residential zones and a height limitation of 25 feet became a possibility. Height limitations would have included all structures, even church steeples.

The first alert came from a city council member, Len Silvern - K6RXU who notified George Hopping - NZ7I president of the Verde Valley Amateur Radio Association, of pending legislation that would severely restrict towers and antennas for radio Amateurs.

A steering committee of four local Amateurs was formed. Strategy was planned to determine what subjects would be presented to the city council and who would speak on each subject. The presentations were broken down into categories:

- o Technical (the need for height);
- o Historical;
- o Legal (PRB-1);
- o Emergency service.

The Amateurs' initial presentation in 1989 resulted in the city council referring their request for an exemption to the height limitation to Planning and Zoning staff.

ARRL Report - Continued

The staff took it upon themselves to verify the existence of PRB-1, by calling the FCC. The FCC spokesman affirmed that PRB-1 exists but that it did not prescribe nor set height limitations.

This statement gave the hams a problem to overcome: namely, convincing the members of Planning and Zoning of the need for adequate height in order to perform their services for the community.

After several sessions before Planning and Zoning, a vote was taken which resulted in a split decision recommending an exemption for the Amateurs, provide they adhered to a reclining length (in case of collapse) within the bounds of the property.

In addition, they recommended that if the operator no longer held a valid federal Amateur license, the tower and antenna must be dismantled. This recommended ordinance was referred to the city council on Dec. 8, 1990.

At that point the hams still had a divided city council to contend with, so the writer, who is the ARRL district emergency coordinator, asked the following people to write the mayor with a request to support the exemption for hams:

Barry Goldwater - K7UGA; American Red Cross Disaster Chairman Will Degarty; and Yavapai County Emergency Services Director Kim McIntyre - N7MPN. All three sent favorable letters to the mayor, who provided copies to each council member.

The steering committee also researched 13 towns and cities in the area which had either no height limitation or a 70- to 100-ft limitation. This information was incorporated in the writer's letter.

Two more council sessions were attended by the steering committee and members of the Verde Valley Amateur Radio Association before the ordinance finally was passed by a five-to-one margin. It reads as follows:

Towers and Antennas. The towers and antennas used by Federally licensed Amateur Radio operators shall be exempt from the district's height limitations for buildings. Any such tower or antenna must be so located on the lot that its reclining length (in case of collapse) would be contained within the bounds thereof.

If the operator no longer holds a valid federal Amateur Radio operator's license, then the tower and antenna must be dismantled.

We believe the key to winning tower battles like this is to have a plan of presentation and watch for opportunities to put your case forward at the optimum moment. Our case was aided by having a member of the city council (Silverman) who kept us up to date on developments.

IT'S OFFICIAL - A NEW DXCC COUNTRY IS HATCHED! The DX Century Club list will grow from 322 "countries" to 323 on Sept. 1, 1991, with the addition of the Penguin Islands. The Penguins, sitting off the coast of the west African country of Namibia, are claimed by South Africa. DXCC country status for this group of 13 islands was applied for in June.

After studying the application, the ARRL DX Advisory Committee (DXAC) on May 17, 1991, voted 9-5 with two abstentions to recommend DXCC country status for the Penguins.

This recommendation was affirmed by the ARRL Awards Committee on May 30 by a unanimous vote.

QSL cards for DXCC credit for the Penguin Islands may be submitted to Headquarters beginning Sept. 1, 1991. Cards received before that date will be returned without credit.

There have been two recent operations from the Penguin Islands, according to QRZ DX: German and South African operators signed DL8CM/ZS1 and ZS9AAA/1 (plus ZS9A/1 on 6 meters) in July 1990. In December 1990 ZS9Z/1 was active.

RAJIV GANDHI, VU2RG REMEMBERED. The assassination on May 22 of Indian politician and former prime minister Rajiv Gandhi, VU2RG, ended an era in which Indian radio amateurs had a true friend in high places. Two friends, actually: Gandhi's widow Sonia also is a licensed amateur, VU2SON.

Gandhi received his license on 1 January, 1975, and Sonia Gandhi the following October. Ten years later, when Gandhi was prime minister, the Amateur Radio Society of India said of the Gandhis' station "VU2RG/VU2SON is today the most sophisticated amateur station in the country."

ARRL Report - Continued

Gandhi, who held a category 2 license, also managed what was, in the 1970s, India's first repeater. VU2RRG operates on 2 meters from New Delhi, where the Gandhis lived.

220-222 MHz TO HOST FINAL EVENT.

The Eastern VHF/UHF Society has scheduled an operating event for Aug. 27, the final day for amateurs to use the 220-222 MHz segment of the 135 cm. band. The event, called the 220 QSY QSO Party is, according to event coordinator Thomas Kirby, W1EJ, patterned after the ARRL "Sprint" contests. Kirby notes that, ironically, the last day of legal amateur activity in the segment is a Tuesday -- traditionally "220 Activity Night."

The Party will take place in two time segments; Phase A runs from 2200 to 2400 UTC Aug. 27, during which the entire 220-225 MHz band may be used; during Phase B, from 0000 to 0400 Aug. 28, stations worked in Phase A may be worked again for credit.

Complete rules for the 220 QSY QSO Party will appear in August QST.

BRIEFS

o The League has reminded convention and hamfest organizers that music performed or played during such events may be subject to action by the copyright owners of the music. Recently the music industry's licensing organizations have become much more aggressive in requiring the payment of licensing fees for the use of copyrighted tunes, and seeking legal sanctions for unlicensed use.

Because the ARRL does not participate financially in conventions and hamfests conducted with League approval, the question of music licensing must be addressed, if needed, by local organizers.

Questions about music licensing should be addressed to The American Society of Composers and Publishers (800-627-9805) or to Broadcast Music Inc. (800-669-4264).

o More than 250 requests for the Samuel F.B. Morse certificate have been received for the first proficiency run in late April (see June QST, p. 14, for a reproduction of the certificate). Additional qualifying runs (in addition to those already scheduled) are being contemplated for the fall.

o The latest U.S. Telecommunications Training Institute (USTTI) Amateur Radio Administration Course, taught by IARU President Dick Baldwin - W1RU in early May, hosted the following telecommunications officials:

Lennox O'Brian Smith (Guyana); Marco Barahona (Honduras); Mario Lobo (Honduras); John Norbert (St. Lucia); and Oros Chattanond (Thailand).

Members of the HQ technical department assisted, demonstrating construction techniques and 10 GHz operation, as did International Programs Manager Nao Akiyama - NX1L.

One evening during the week-long course all five students visited Akiyama's home station. "We took advantage of the third-party traffic agreement with Argentina to have a QSO in Spanish with LU6UAG, in La Pampa," Akiyama said. NX1L is fluent in Spanish, which allowed him to monitor the QSO.

The students returned to their home countries with books, as well as a new appreciation for Amateur Radio.

o The new head of the Handi-Ham System at the Courage Center in Minnesota is 43-year-old Patrick Tice - WA0TDA. Tice, of Stillwater, MN, assumed his new duties May 13.

o New licenses issued by the FCC in March, the first full calendar month of codeless Technician class availability, were as follows: Novice, 1,734; Technician, 882; General, 31; Advanced, 5; Extra, 4 (for a total of 2,656). FCC has no breakdown of codeless vs. traditional Technician licenses issued. Since actual licensing always lags license applications, it actually is too early to assess the effect of the new license class.

Note that the figures above are for new licenses. Also in March 2,216 Amateurs upgraded, including 1,079 to Tech., 526 to General, 371 to Advanced, and 240 to Extra.

Figures for April show 5,749 new Amateur licenses issued as well as 3,239 upgrades. Since the codeless Technician class license was born on Feb. 14, more than four thousand new Amateurs have joined our ranks as Techs.

□ □ □

ARRL Educational Workshop

July 27
Goddard Space Flight Center

- Who:** All hams, club members, volunteer instructors, teachers who use Amateur Radio in school, Elmers, and so on.
- When:** July 27, the Saturday before the Timonium Hamfest, 9 a.m. to 3 p.m.
- Where:** Goddard Space Flight Center
- What:** Speakers will give 20-minute presentations on Amateur Radio recruiting, such as:
- using school programs to recruit youth
 - how to get Amateur Radio publicity tied in with current events, such as the shuttle or world political events.
 - how to target seniors, engineers, women, the disabled, computer hobbyists, whole families, etc.
 - how to get publicity through broadcast or print media
 - how to get a recruit to commit to attend a class
 - how to make peer pressure work to keep people coming to class
 - how to recruit **your own family**
 - how to use flyers, posters, and direct mail for publicity

Speakers presently scheduled include:

- Kay Craigie, KC3LM - how to "sell" ham radio
- Goddard Amateur Radio Club - Shuttle Amateur Radio EXperiment
- Jerry Mullinix, KC4OUN - Amateur Radio in school programs
- Terry Reddington, WB5LMJ - Volunteers in Amateur Radio groups

Tentatively scheduled:

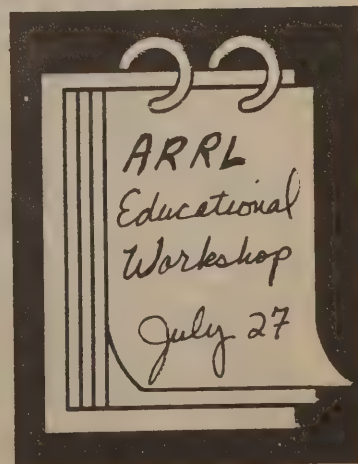
- Tony Young, WA3YLO and Jerry Herman, N3BDW - recruiting
- William Free, W3FTG - recruiting Scouts

For more details, Write a post card that says:

"Details on the Goddard ARRL Educational Workshop"

Send it to:

Rosalie White - WA1STO,
ARRL EAD,
225 Main Street
Newington, CT 06111




EEB


the EEB Hamgram

HAM & SWL NEWSLETTER

The HAMGRAM is a free service from EEB to all subscribers (Want to subscribe? Just fill in the subscription blank) and is intended to keep you, our customers and readers, informed about new products, special sales, close-out items, club & VEC information, and other news of interest.

You'll see it here before you see it in the big four monthly magazines. Why? Because we don't have ninety day lead times before publication.

We want your inputs: How can we serve you better? Is there a special product you would like to see at EEB? Please use the comment blank in this issue to reply.

GSA CONTRACT

EEB is presently negotiating a contract with GSA. This particular contract involves many popular amateur radio products.

Amateur radio equipment gives our government more bang for the buck than most specially designed equipment. It is a well known fact that many pieces of amateur equipment function as well, and some better, than high priced specially designed equipment. The cost savings advantages for purchasing amateur equipment are real and very important in these days of tight budgets.

All items on this contract will be negotiated once per year. Therefore the procurement cycle is reduced in time span, reducing delays, and making fast availability of products.

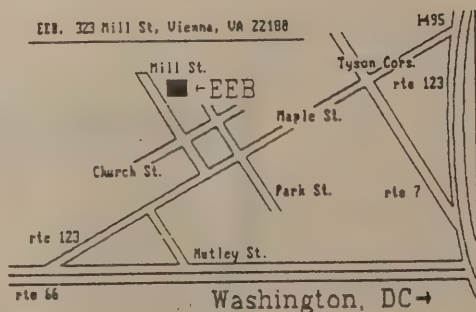
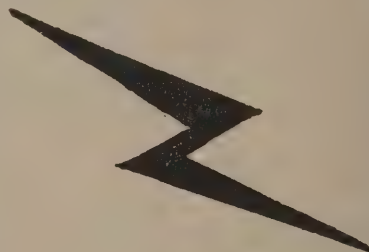
If you work for the U.S. Government please keep EEB's new GSA contract in mind.

Wanted: Trade-ins

Trader Scott says he needs ~~late~~ model used ham gear and is ready for some **real wheeling and dealing**.

Now is the time to upgrade to that new state of the art rig.

Also, Scott's consignment sales rack is quite low on stock, so dust off that equipment you no longer need and bring it over and let Scott turn it into cash for you



HAMGRAM Drawing Entry and Subscription Blank

Name _____

Address _____

City _____

State/ZIP _____

Phone _____

Callsign _____

Directions to EEB

from the Beltway: Exit 11B Tysons Corner - go 9 lights and one block - turn right on Mill Street
from Route 66: Exit 17 Vienna - turn left - go 1 mile to Maple Street - turn right - go 2 lights and one block - turn left on Mill Street

EEB is a light green warehouse about 1/4 mile down Mill Street on the right. Look for a 50' tower on the front.

Store Hours -----

9 to 5 Mon - Fri

'til 9 on Thur

10 to 4 Sat

Closed Sunday

Phones -----

(703)938-3350

(800)368-3270

Electronic Equipment Bank

323 Mill Street, NE

Vienna, VA 22180

DX DX DX

John Kanode, N4MM

PENGUIN ISLANDS, IS DXCC COUNTRY

The DXAC voted 9 in favor, 5 against and 2 abstain to add the Penguin Islands to the ARRL DXCC Country List. The DXAC requested that the HQ Awards Committee consider this action. On May 30, the HQ Awards Committee voted 7 to 0 to add the Penguin Islands to the DXCC List. The Penguin Islands were added under Point 3A, Separation by another DXCC Country. Submission of cards for the Penguin Islands will be accepted on or after 1 September 1991. Cards sent before this date will be returned without credit.

To the best of our knowledge, there have been two creditable operations from these islands: ZS9A/1, ZS9AAA/1 and DL8CM/ZS1 in July of 1990 and ZS9Z/1 in December of 1990. This will bring the number of current DXCC countries to 323.

MOZAMBIQUE

On May 17, Mozambique re-introduced Amateur Radio. This follows on many years of behind the scenes lobbying by various radio amateurs. The main thrust came when the late Peter Strauss, ZS6ET made several visits to Naputo and convinced the authorities that

Amateur Radio is a powerful contributor to the development of technical expertise in the electronics and communications fields. The call sign C91TDM has been issued to the club station which will operate from a classroom in the telecom building.

NEW DXAC APPOINTMENTS

The Vice Chairman is Bob Beatty, W4VQ and the Secretary is Jim Maxwell, W6CF.

ARRL HQ AWARDS COMMITTEE

Most DXers know who is serving on the DXAC, since it is published in QST each year, however very few know who is on the ARRL HQ Awards Committee. Following is a list of this committee:

Charles Hutchinson, K8CH, Chairman
Don Search, W3AZD
Billy Lunt, KR1R
John Nelson, W1GNC
Mark Wilson, AA2Z
Steve Ewald, WA4CMS
Russ Healy, NJ2L
Jim Kearman, KR1S

Alternates-

Paul Shafer, KB1BE
Nao Akiyama, NX1L

DX CONTESTS FOR JULY

July 1-----Canada Day Contest
July 6/7-----Venezuelan Independence Day Contest- Phone
July 14/15---IARU HF World Championship
July 20/21---Columbian Independence Contest
July 27/28---Venezuelan Independence Day Contest-CW

UPCOMING DXPEDITIONS

ST. PAUL ISLAND CY9-- Seven members of the West Island Amateur Radio Club of Montreal will activate St. Paul Island on August 1-7 using the special call of CY9CWI.

NOTES:

- Both 9K2-Kuwait and YI-Iraq are back on the air, however getting QSL cards may be a problem. Mail Service in and out of these countries is questionable.
- After a long dry spell, six meters is coming back to life. It is that time of the year to watch for openings into Central and South America and the Caribbean.
- Art, N2AU, editor of INSIDE DX has ceased publication. All current subscribers will receive refunds within the next 90 days.
- Rajiv Gandhi, VU2RG, former Prime Minister of India became a silent key on May 21.

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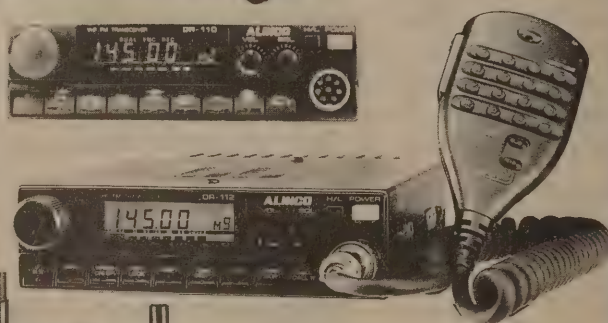
ALINCO TWIN BAND Mobiles. 45/35 Watts DR-570T - DR-590T

The Twin-Band Alincos have all the features you would ever want. And they are priced many \$\$\$ less. Check Out Alinco Today!



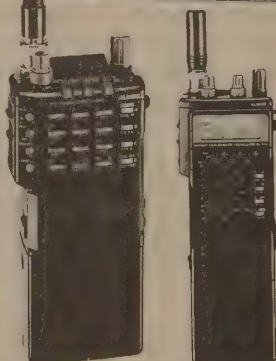
ALINCO 2-METER Mobiles 45 Watts DR-110T - DR-112T

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FOUNDATION FOR AMATEUR RADIO
Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS
1991

IMPORTANT NOTE: If you now have a Technician class license which was acquired prior to March 21, 1987, have a copy of it available when you decide to upgrade.

EXAMS

- Jul 6 Dept of State/GW University (Washington, DC) (ARRL VEC) Walk-in
Contact: Derrill Rohlf, W3WOX (301) 423-0179
- Jul 13 Anne Arundel Radio Club (LARC VEC) Pre-registration requested
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Chesapeake DX Assn. (Chesapeake, VA) (W5YI VEC)
Contact: Bill Verebely, KC4YX (804) 424-4764
- Jul 20 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Richmond (Richmond, VA) Walk-in
Contact: Ron Bolton, WU4G (804) 798-5191
- Jul 26 Stafford Area Repeater Assn. (Stafford, VA) (W5YI VEC) Walk-in
Contact: David Boyd (703) 659-6241
- Jul 28 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration
Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)
- Aug 3 Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241
- Aug 10 Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)
- Anne Arundel Radio Club (LARC VEC) Pre-registration requested
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Aug 17 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611

(Continued)

Volunteer Examiner Cooperative - Continued

- Sep 7 Montgomery College (Germantown, MD) (ARRL VEC)
Contact: John Muller, W3QF (301) 564-0178
- Sep 14 PROS (Salisbury, MD) (Laurel VEC) Walk-in
Contact: Dave Bridge, KB3MT (301) 436-8360
- Richmond (Richmond, VA) Walk-in
Contact: Ron Bolton, WU4G (804) 798-5191
- Anne Arundel Radio Club (LARC VEC) Pre-registration requested
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Sep 21 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Sep 22 ARRL Roanoke Division Convention (Virginia Beach, VA) (ARRL VEC)
Contact: Ed Brummer, W4RTZ (804) 898-8031
- Sep 27 Stafford Area Repeater Assn. (Stafford, VA) (W5YI VEC) Walk-in
Contact: David Boyd, K9MX (703) 659-6241
- Oct 12 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC)
Contact: Andrew Swanson, WJ4D (804) 253-2811
- Anne Arundel Radio Club (LARC VEC) Pre-registration requested
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
- Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)

NOTE: All examinations require that you submit:
Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.

Check for appropriate examination fee.

Fees of individual VEC may vary.

ARRL Exam fee is \$5.25

W5YI Exam fee is \$5.25

Laurel Exams are still free.

Mountain VEC Novice Exams free

All other Mountain VEC Exams \$2.00

While most examinations are offered on a walk-in basis,
pre-registration is desirable in all cases.

This schedule of examinations appears each month in Auto-Call Magazine
Sponsored by the Foundation for Amateur Radio

Training Classes

Robert Armstrong, WA4SQL

44 South French Street, Alexandria, VA 22304

Phone (703) 751-2294

Training Classes, N.W. Washington, DC Starting June 29. Sponsored by Maryland Apple Dumpling Radio Amateur Society (MADRAS). Classes will be held from 10:00 to 11:30 a.m. every Saturday until August. Although the course is primarily theory and FCC regulations, the class has access to a full Ham radio station and code practice facilities for those having higher aspirations. For more information call Larry Ziecheck, N3GKZ at (301) 984-6112.

Training Classes, Fredericksburg, VA. July 8-26. Sponsored by Stafford County Public Schools "Summer Enrichment Program" for students in 4th through 8th grades. Available to out of county residents. Courses #18 and #19, cost \$28 per course. Cost includes "Tune in the World" workbook and other materials. For further details, contact Drew Middle School, White Oak Instructional Center, Fredericksburg, VA 22405 or call Jerry Mullinix - KC4OUN (703) 659-9418.

Novice Training Classes, Baltimore, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Friday evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free; Materials (which you can keep) consist of a book and tape and cost \$19.90. For registration or information, contact Jeff Salamon, N3FHT. Phone (301) 484-1362

Novice and Upgrade Classes, Lexington Park, MD. Sponsored by St. Mary's County Amateur Radio Assn. For further information call (301) 862-2214.

Novice Training Classes, N.W. Washington, DC. Sponsored by MADRAS. For more information contact Larry Zeichek - N3GKZ (301) 984-6112.

Training Classes, Sponsored by Montgomery Amateur Radio Club. Fall class is scheduled to begin about October 1. There is no charge. Classes are open to all with an interest in Amateur Radio, especially former and current "short wave listeners." For further information, contact Ken Nichols -KD3VK (301) 977-5405 or Dick Hayman - K3DML (301) 251-8721.

SLOW CODE PRACTICE NET, 28.250 MHz 7 to 8 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc.

[See next page for general information on club contacts for training programs.]

Foundation Meetings

The Foundation for Amateur Radio meets at 8:00 p.m. on the second Wednesday of each month.

Visitors are always welcome

Membership is open to any Amateur Radio organization in the local area.

Phone (703) 536-8469 for information

The next meeting will be on July 10 in Alexandria, Virginia

Lee Center School Building at 1108 Jefferson Street

Talk-in on 146.55

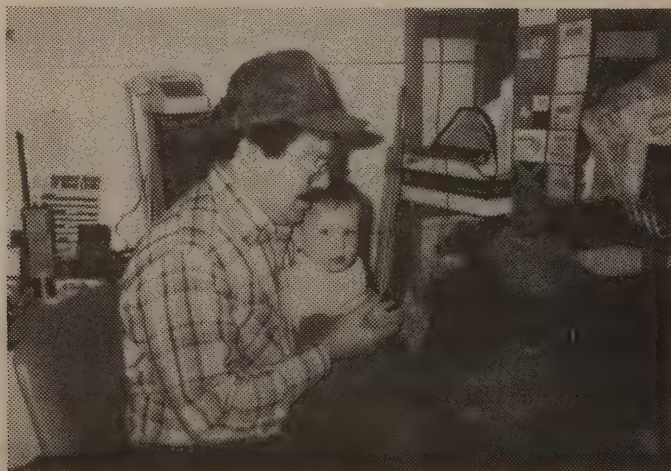
GENERAL INFORMATION

Alexandria Radio Club
Anne Arundel
Arlington ARC
Baltimore ARC
BRATS
Chaverim, Inc.
Fauquier ARC
Frederick ARC
Laurel ARC
MADRAS
Maryland Mobileers
Montgomery ARC
Mount Vernon ARC
NASA/Goddard ARC
Ole Virginia Hams
Pentagon ARC
Rock Creek ARA
St. Mary's County ARA
Shenandoah Valley ARC
Southern Maryland ARC
Southern Patuxent ARC
Sterling Park
Tri County ARC
Vienna Wireless
Washington Adventists
Woodbridge Wireless

Harry Jones - N4CWP (703) 204-1781
Tony Young - WA3YLO (301) 262-1917
Fred Bardsley - WD4DHW (703) 533-0372
Phone 1-800-HAM FEST - VB
Jeff Salamon - N3FHT (301) 484-1362
Bob Teitel - W3IDT (301) 654-3484
Bill Mills - KC5PF (703) 937-4090 (H), 818-3955 (O)
Steve Bauman - W3FOA (301) 662-4552
Bill Bowden - KD3EC (301) 776-4083
Larry Ziecheck - N3GKZ (301) 984-6112
Bill Dillon - WA3SCW @ WB3V in Packet
Ken Nichols - KA3KGL (301) 977-5405
John Forrest - WZ4A (703) 971-3905
Vikki Gigante - KA3PVS (301) 249-2609
John (703) 791-5995
David Boyd - K9MX (202) 697-0630
Walt Ramsey - AK3B (301) 949-3954
Call (301) 862-2214
Guy Black - W4PSJ (703) 722-4952
Vic Curtis - WA3YUV (301) 888-1388
Dwayne Kincaid - WD8OYG (301) 586-2177
Art Nevins - WA4NTP (703) 437-9382
Al Sines - WA3QGA, Box 710, College Park 20740
Paul Wilkins - AB4CY (703) 560-2779
Henry Miller - W3BWN (301) 474-7376
Loyd Davis - K8EI (703) 360-0248

Catch 'Em While They're Young!

*Dan Gropper - KC4OCG and 16-month old Richard Gropper.
Richard has already been smitten with the Ham Radio bug.*



Public Service Report

Hank Black - N3ESR

(301) 340-8595

Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month.

Deadline for receipt of material is the fourth of the month.

SKYWARN ACTIVATED, HAMS REPORT ICE CUBE SIZE HAIL

Sometime around 13:30 p.m. on Monday, May 6th the National Capital ARES Council pagers went off. The message was for the SKYWARN Net Manager to call the National Weather Service (NWS) Washington Forecast Service Office (WFSO) in Sterling, Virginia. Earlier in the late morning, the meteorologist-in-charge (MIC) had left a message on Chuck Rexrode's, N4HCP, voice mail indicating word had been received from the National Severe Storms Forecast Center in Kansas City of the possibility Maryland would be issued a severe storm forecast for later in the day.

The NWS WFSO MIC did not know Chuck Rexrode, N4HCP had submitted his resignation as the SKYWARN Net Manager during the previous week. At the National Capital ARES Council (NCAC) meeting on Saturday, May 4th, the area EC's discussed the loss of N4HCP as Net Manager and were working on finding a suitable replacement. However, Mother Nature does not wait for anyone.

At twenty minutes to 1 p.m., a second page for the SKYWARN Net Manager was issued. Once the third page was received, NCAC policy requires any EC who can respond to call the NWS WFSO office to determine the nature of the request. Andy Stern, MIC, was getting nervous. At 12:06 p.m., the NWS in Charleston, West Virginia issued a severe Thunderstorm Warning and at 12:11 p.m. the NWS at Elkins, West Virginia issued a Special Weather Statement indicating that weather service radar "is showing possible thunderstorms developing across northern West Virginia...showers and possible thunderstorms extend from just east of Zanesville, Ohio south through Parkersburg and Charleston into the Beckley Area. A severe thunderstorm warning has already been issued for northern Kanawha and southern Roane Counties..."

Once the third page was issued several EC's and Assistant EC's initiated the backup plan when initial pages are unanswered. The meteorologist-in-charge (MIC) had not heard from anyone by the time he issued the third page. Shortly thereafter, contact had been made by Hank Black, N3ESR, NCAC Chairman, who coordinated with Harry Jones, N4CWP, District 2 DEC, to find someone who could respond to the NWS WFSO to run the skywarn net. At the same time Bob Lewis, N4SCK and Ed Ober, KC4EFJ had been in contact and KC4EFJ was responding to Sterling. MIC Andy Stern was a little less nervous now that one of the amateur radio operators would be coming in. (Anyone interested in the amateur radio side of SKYWARN or its net operations should contact Harry Jones, N4CWP, Bob Lewis, N4SCK, or Hank Black, N3ESR.)

At 3 p.m. Ed Ober, KC4EFJ opened the SKYWARN Net on 147.300 MHz Bluemont Repeater from the NWS WFSO in Sterling, Virginia. Since 1 p.m. the WFSO had issued a Special Weather Statement saying "Thunderstorms have been increasing in number and intensity over central West Virginia during the past hour as they move east at around 40 mph. Latest analysis shows the atmosphere is becoming less stable over west central Maryland...Northwestern Virginia and the eastern panhandle of West Virginia. This is setting up the strong potential for thunderstorms in this area during the mid afternoon. Some of these thunderstorms may be strong to severe."

At 1:07 p.m. the Severe Storms Forecast Center issued Severe Thunderstorm Watch Number 298 for much of the eastern West Virginia, portions of western and northern Virginia, portions of western Maryland and portions of south central Pennsylvania. The watch area was established for

Skywarn - Continued

60 statute miles east and west of a line from 40 miles south southwest of Dublin, Virginia to 15 miles north of Altoona, Pennsylvania.

Things were getting worse. At 1:49 p.m. the NWS at Elkins, WVA issued a severe thunderstorm warning for north West Virginia, Preston County. At 2:05 p.m. Elkins issued a severe thunderstorm warning for western Maryland, Garrett County. At 2:30 p.m. the weather radar at Patuxent River, Maryland was showing a ragged band of thunderstorms and showers lining up from central Virginia near Richmond northward across southern Maryland into Anne Arundel County and the upper Chesapeake Bay. At the same time, NWS at Elkins is issuing a severe thunderstorm warning for Allegany County, Maryland. Trees down and power outages were being reported for southeast Garrett and western Allegany Counties.

Not to be outdone, the NWS WFSO in Sterling is issuing at 2:30 p.m. a Special Weather Statement reiterating the severe thunderstorm watches in effect and reports of the actual weather including the growing history of severe weather with one inch diameter hail and wind gusts of 66 mph. At 2:50 p.m. the NWS in Baltimore, Maryland (located at BWI Airport) issued a Special Weather Statement for thunderstorms developing over northeast Maryland. At 3:01 p.m., Tornado Watch Number 300 is issued by Kansas City for "a small part of eastern West Virginia panhandle, parts of south central and southeast Pennsylvania, a large part of southern New Jersey, Delaware, parts of central and eastern Maryland, the Maryland Eastern Shore, parts of central and eastern Virginia, the District of Columbia and the adjacent coastal waters." It makes one wonder what causes nervousness in forecast meteorologists!

The tornado watch area was for 95 statute miles east and west of a line from 20 miles southwest of Richmond, Virginia to 35 miles northwest of Philadelphia, Pennsylvania. So went the afternoon at Sterling, Virginia. Severe weather statements, more forecasting, obtaining SKYWARN reports and more. At 4:15 p.m. NWS WFSO issued one of many severe weather statements for the day over the NOAA weather radio and weatherwire circuits. This one reminded listeners that "a tornado watch is in effect for all of...until 10 p.m. EDT." Also, "amateur radio operators reported ice cube size hail in Hagerstown, MD at 4 p.m..." This brought the forecasters to their knees in laughter during their tense afternoon listening the SKYWARN amateur radio net and its observer reports. While things quieted down around 6 p.m., the net did not secure until 7:20 p.m.

Assisting the SKYWARN Net Control operator KC4EFJ in providing the WFSO with severe weather reports were: KA3NLF, W3HQX, N3IVB, KA4HDR, KA3YXN, WD4KXB, WA2WDT, W3BRZ, KB4MUJ, KJ4EK, KD3J, N3CKE, KF8FL, KD3TY, W3BHE, W6NTB, KC4YMP, KA3WVC, K3JLG, KK3NLF, KC4TPM, KA3VLG, KK4GC, WB3E, N4XSL, WA3VRG, WA4BIV, KC4CVG, W4GW, KA3VRG, AB4XV, N3FVF, WD4RPV, N3HJV, N4EKW, KB4TBF, KB8IBL, N3HVC, WB4RDV, WA3ZLB, AC4CZ, KA3YTP, KC4NDV, N4VZT, N4YPR, N4ASX, KC4OCG, KC4WES, KA4GFY, N4LZJ, KC4OGY, KB4AI, WA2OVT, N4ITE, N3HJA, KV3Y.

SKYWARN HONOR ROLL FOR ADDITIONAL ACTIVATIONS

The following amateurs participated in SKYWARN activities during the May 17th net: KC4EFJ, KC4YGB, W3CQH, WA4QYP, N3JAI, KC4ZPN, N4SCK, K3CUU, N3HIF, WJ3F, KC4KUG, W4DBF, WD4RPV, WA2GIN, AB4UN, W4PVA, N4XSL, WA2MKM, WB8OIF, WB4RDV, KC4OCG, KA3CXG, KB8IDL, WB4WZZ, N4DCL, N4TS, KC4WLS, N4PDY, N3HMX, KA3KIF, KA4LCB, KC4WVL, N4NMR, KC4YMP, KM4XG, KB4LSS, KA1LM, and N4ZYP.

The following amateurs participated in SKYWARN activities during the June 1st net: N3ESR, N4SCK, N3HJA, K3CUU, KC4YGB, N3HFO, W5UIP, W3/GB8PUK, WB4TBF, N7BRJ, N4VTY, KB2CEU, KA3YMX, WB4RON, KC4OGY, N1FFN, KA3RQQ, W3ERU, WI3A, W8FFH, KC4OCG, N4PD, WD4RDV, KC4WES, KA4GFY, KA3KIF, N4ASX, KE2HT AND K3AAA.

Public Service Report - Continued

SKYWARN NET MANAGER RESIGNS

Chuck Rexroad, N4HCP, submitted his resignation as the SKYWARN net manager this past June. Chuck cites recent changes in his work load and additional responsibilities for his departure.

Persons interested in the SKYWARN Net Manager position should contact Harry Jones, N4CWP, District 2 DEC, or Bob Lewis, N4SCK, EC for Fairfax County.

CORRECTIONS TO ARES EC LIST

Please note the following corrections received for the Virginia Section regarding the Emergency Coordinator for the Military District of Washington. Dick Lum's callsign should read NH6E not N6HE as posted in the June 1991 Auto-Call on page 24.

The SKYWARN Net Manager position should be listed as vacant with the recent resignation of Chuck Rexroad, N4HCP. For information on amateur activities related to SKYWARN contact Bob Lewis, N4SCK, or the editor of this column.

Public Service Honor Roll Report

Virginia Section

May 1991

All Stations Single Operator Status Unless Noted

C A T E G O R I E S

Call	1	2	3	4	5	6	7	8	9	Total
N4GHI	30	30	12	12	12	16	0	5	5	122
W4JLS	25	30	0	12	12	20	0	5	0	104
K4MTX	30	30	12	12	12	0	0	0	0	96
K4BGZ	0	30	0	12	12	21	0	0	5	80
AA4AT	30	11	12	3	12	3	0	0	0	71
KJ4EK	14	30	0	12	6	0	0	5	0	67
WB4ZTR	10	22	3	12	12	0	0	5	0	64
KB4CAU	0	30	0	12	12	8	0	0	0	62
KC4OJM	0	30	0	12	12	2	0	5	0	61
WB4UHC	20	18	3	0	12	3	0	5	0	61
AA4GL	0	30	0	12	12	0	5	0	0	59
K4VWK	9	18	19	0	12	0	0	0	0	58
WB4ZNB	0	23	0	12	12	0	0	5	0	52
KC4JGC/T	0	28	0	12	0	1	0	0	0	41
WA4TVS	0	8	0	12	0	0	0	5	15	40
WD4MIS	13	0	9	0	12	1	0	0	0	35
K4MLC	22	0	12	0	0	0	0	0	0	34
KC4GIA	0	12	0	12	0	0	0	5	0	29
N4FNT	0	26	0	0	0	0	0	0	0	26
W4TZC	20	1	0	0	0	5	0	0	0	26
N4XAQ	0	17	0	0	0	0	0	0	5	22
KJ4UF	0	2	0	0	0	0	0	5	5	12

(Continued)

Public Service Report - Continued

Categories:

1. Checking into CW nets, 1 point each (max. 30)
2. Checking into Phone/RTTY nets, 1 point each (max. 30)
3. NCS CW nets, 3 points each (max. 12)
4. NCS Phone/RTTY nets, 3 points each (max. 12)
5. Performing assigned NTS liaison, 3 points each (max. 12)
6. Delivering a formal message to a 3rd party, 1 point each (no max.)
7. Handling an emergency message, 5 points each (no max.)
8. Serving as Net Manager or Emergency Coordinator, 5 points (max. 5)
9. Participating in a public service event, 5 points each (no max.)

A Public Service Honor Roll certificate is available to those who obtain 60 or more points per month (40 or more for Novice/Technician) for 12 consecutive months, or for 18 out of 24 months. Reports should be sent to WB4ZTR before the 5th of the month. ***NOTE*** Revised requirements for PSHR take effect for the June reporting month, with reports due the first week of July. The new PSHR criteria may be found in a packet message from WB4ZTR or on page 71 of the May 1991 issue of QST, or on page 22 of the June issue of Auto-Call.

PUBLIC SERVICE CALENDAR

July 4	Fairfax City Parade Contact Bob Lewis, N4SCK (703) 830-3495
July 13	NCAC Council Meeting 10 a.m. 1st floor Disaster Operations Room 100 Maryland Avenue, Rockville, Maryland Contact Hank Black, N3ESR (301) 340-8595 or Harry Jones N4CWP (703) 204 1781
July 20	Rockville Rotary Twilight 8K Run Contact Hank Black, N3ESR (301) 340-8595
Aug. 31	International Children's Festival
Sept. 1	& Wolf Trap Farm Park
Sept. 2	Contact Bob Lewis, N4SCK (703) 830-3495

Computer Networking Conference

The deadline for receipt of camera-ready papers for the 10th ARRL Amateur Radio Computer Networking Conference is August 12. Those wishing to submit paper(s) for this year's conference should contact Lori Weinberg at ARRL Headquarters for paper guidelines and/or an author's package. Phone (203) 666-1541 or fax (203) 665-7531.

Topics will include, but are not limited to, HF packet investigations, network development, digital signal processing, digital speech, hardware, software, protocols, packet services, packet satellites, and future systems.

The 10th ARRL Amateur Radio Computer Networking Conference, hosted by the Northern California Packet Association, will be held September 27-29 in the San Francisco, California area.

(ARRL News Release 3/27/91)

Area ARES Emergency Coordinators

VIRGINIA

Va. Section EC: Steven P. Czaikowski, WB4ZTR (703) 869-3674
District 1 DEC: John Anastas, KJ4EK (703) 667-6046
Frederick Co. EC: Bob Cooley, N4VJK (703) 662-5312
Page County EC: George McCulloch, WA3WIP (703) 743-3532
Shenandoah County: Bill Casilear, WD4CDT (703) 459-8002
Warren Co. EC: Mark Kesner, (703) 635-8667
District 2 DEC: Harry Jones, N4HCP (703) 204-1781
Military District of Washington EC: Dick Lum, NH6E (703) 938-9215
Alexandria EC: Richard Adamy, KA4GFY (703) 931-2917
Arlington Co. EC: Rick Bunn, N4ASX (703) 685-7765
Clarke County EC: VACANT
Fairfax Co. EC: Bob Lewis, N4SCK (703) 830-3495
Fairfax Co. Asst. EC: Ed Ober, KC4EFJ (703) 591-0422
Fairfax Co. Asst. EC: Dan Gropper, KC4OCG (703) 281-2358
Fairfax Co. Asst. EC: Judy Lewis, KC4WES (703) 830-3495
(FXCO) Mt. Vernon Asst. EC: Steve Schneider, WB4EEA (703) 780-7248
(FXCO) Vienna Asst. EC: Steve Tedesco, KB2CEV (703) 818-1866
Fauquier County EC: Robert Taylor, KC4CVG (703) 439-2786
Loudoun Co. EC: Bill Roemer, K3CUU (703) 687-6693
Prince William Co. West EC: Harry Vorhauer, W4PVA (703) 368-6050
SKYWARN Net Manager: VACANT

.....

MARYLAND & DISTRICT of COLUMBIA

Maryland-DC SEC: Mike Carr, WA1QAA (301) 799-0403
Dist. of Columbia EC: Ken Williams, N3AQQ (202) 363-8364
Allegany County EC: Gay Rembold, W3DFW (301) 724-0674
Anne Arundel Co. EC: Nancy Alley, NT3Z (301) 766-0129
Baltimore Co./City EC: Robert Tracey, KA3BUY (301) 665-1909
Calvert Co. EC: Woody Schwartz, W3ZNW (301) 535-1281
Caroline Co. EC: Eddie Martin, NI3U (301) 634-2041
Carroll Co. EC: John Culleton, KO3Z (301) 795-1159
Cecil Co. EC: Bill Doss, N3AJJ (301) 287-5897
Charles Co. EC: William Rogers, N4ITE (301) 645-4623
Dorchester Co. EC: VACANT
Frederick Co. EC: Rick Ogden, N3RO (301) 845-2670
Garrett Co. EC: William Willson, KB3WL (301) 826-8888
Harford Co. EC: VACANT
Howard Co. EC: Ed Wallace, K3EF (301) 456-0042
Kent Co. EC: Jim Bortner, WA3UJE (301) 778-0589
Montgomery Co. EC: Howard Lenhart, K3IOG (301) 384-9083
Prince Georges Co. EC: George Dewees, KA3KIF (301) 292-1241
Queen Anne's Co. EC: VACANT
Somerset Co. EC: VACANT
St. Mary's Co. EC: Al Barolet, KJ3E (301) 862-3201
Talbot Co. EC: VACANT
Washington Co. EC: Charlie Anderson, NF3X (301) 733-3061
Wicomico Co. EC: VACANT
Worcester Co. EC: Leo Kilgore KX3J (301) 641-4291
SKYWARN Net Manager: (See Virginia EC List)

Please report any changes to Hank Black, N3ESR at (301)
340-8595 or on the WA3ZNW packet BBS on 145.09 MHz

Updated 3 June 1991

Samuel F.B. Morse Memorial

On 200th Anniversary of Inventor's Birth

Hosted by Capitol Hill Amateur Radio Society

May 14 marked the anniversary of the sending of the first long-distance message by telegraph, by inventor Samuel F.B. Morse in 1844. In recognition of the year 1991 being the 200th anniversary of Morse's birth, the Capitol Hill Amateur Radio Society reenacted this moment in history on Thursday morning, May 23. The historic message, "What hath God wrought," once again passed from the nation's Capitol building to Baltimore.

Using an original 1840s telegraph key, the Honorable George M. White - W3HDO, Architect of the Capitol, tapped out the famous message to the B&O Railroad Museum, now located on the site where the original message was received by Morse's colleague, Alfred Vail. Playing the part of Vail at the Baltimore end of the circuit was Bernie McClenny - WB3JRU.

Also playing a role in the reenactment was Jo Ann Morse, wife of Judge Robert F.B. Morse, who played Annie Ellsworth. Ellsworth was the daughter of the Commissioner of Patents in 1844 and the individual who selected the passage from the Bible as the text for the first transmission. Judge Morse is the great-great-grandson of the inventor and is a County Court Judge in Georgetown, Texas, near Austin.

The President Sends his Greetings

President Bush sent greetings to the members of the Capitol Hill Amateur Radio Society and to Judge Morse to mark the occasion. "Samuel Morse's pioneering work in telegraphy launched a new age in communication and in the development of our Republic," the President said. He noted Samuel Morse's contributions as a respected artist as well as an inventor.

On April 24, the U.S. Senate adopted Senate Resolution 113 resolving "That the Senate recognizes, on the occasion of the 200th anniversary of the birth of Samuel F.B. Morse, the role of Samuel F.B. Morse in the revolutionary early development of electrical communications, and further recognizes Morse's momentous contributions to the economic, social, and industrial development of the United States."

ARRL Executive Vice President David Sumner - K1ZZ offered remarks at the conclusion of the reenactment. "Radio Amateurs are perhaps the largest group of people who share an important element of the legacy of Morse's telegraph: the Morse code," Sumner said.

A Million Hams Can't be Wrong

Noting that about one million Radio Amateurs world wide are skilled in Morse code communication, Sumner said that it retains an important position in the world even in these days of far more sophisticated systems.

"The Morse code helps to overcome language barriers," Sumner said. "It makes possible the use of simple equipment and reduced transmitter power. It can even be used in communicating between computers and human being. Even better, once you know the code, it's fun to use it. For that reason, I am confident that when future generations mark the Morse anniversary as we are doing today, there will still be many Radio Amateurs who are skilled in Morse code."

Organizers of the reenactment were Frank Donovan - W3LPL, David Siddall - K3ZJ, Kenneth R. Dewhirst - K3IWE, Lawrence T. Fadner - W3GN, William O. Hider - N3RR, Peter L. Huber - K3ZR, Warren R. Bechtel, New Valley Corp., and Boyd W. Humphrey, Western Union.

(From ARRL Letter May 30, 1991)

SRAM-031

Edited by Dexter Anderson, W4KM

[Comments in square brackets and footnotes are by translator]

[The delays in the dispatch of Soviet amateur radio periodicals, mentioned in last month's article, are apparently being overcome; the March (though not the February) issue of RADIO magazine and one of the April issues (though none of the March ones) of the newspaper SOVETSKIY PATRIOT have been received.]

[From RADIO #03 (March) 1991]

[To mark International Women's Day on the 8th of March, the March issue of RADIO highlights women's activities.]

"FUTURE TEACHERS STUDY RADIO," by V. Poltavets, UA4AM, Chief, Volgogradskaya Oblast' Federation of Radio Sport, Volgograd.

The amateur ranks in our country are beginning to dwindle. Among the reasons are the shortage of radioparts, the indifference of responsible agencies, and the catastrophic absence of qualified mentors capable of instilling a fascination with radio at an early age.

What's the solution? The conclusion we reached in our federation of radio sport is that we need to train future teachers as leaders of radio clubs, circles, and collective amateur stations in schools.

The Volgograd Pedagogical Institute actively helped us open a collective radio station, UZ4AXZ, at the Institute and to organize the "Kvant" Radio Club. Boris Grigor'yevich Markov, UA4AMW, became club chief. He recruited teachers and students with military experience, and they began to train future teachers as leaders of radio circles and clubs.

The Institute allotted 30,000 rubles to set up a special radio course for physics-math students. A special program was developed for training radio club leaders, based on 400 hours of instruction on radioconstruction; sport orientation and radiodirectionfinding; shortwave, ultrashortwave, and satellite communication; radiotelegraphy and speed radiotelegraphy; shooting; organizing mixed radio-operator competitions; judging and training; the use of computers in radiosport.

During the first year this elective course was offered, the women's team of the pedagogical institute qualified for Candidate Master of Sport of the USSR while participating in the Shortwave Radiocommunication Championship of the USSR Dedicated to the Memory of Hero of the Soviet Union Yelena Stempkovskaya¹. Several girls already belong to the first sport category.

¹A women's championship, held annually in December, named after Yelena (Helen) Stempkovskaya, a radio operator in the Soviet armed forces during the Battle of Stalingrad (the city was renamed Volgograd following Stalin's death). She was captured, refused to divulge information, and died or was killed under interrogation. She was posthumously awarded the prestigious title of Hero of the Soviet Union.

SRAM-031 - Continued

"OUR DEBTS," by Yelena Vsevolodovna Turubara

It's painful to read the mail that poured in after the article² about handicapped radio amateurs. Human misfortune, often borne alone, literally cries out from the letters, which come in from people handicapped since childhood, from work accidents, and during the conflict in Afghanistan.

My name is Ivan Aleksandrovich Chernokalov. I've been handicapped since childhood. First group. I got interested in amateur radio in the late '70's, first monitoring, then dreaming of independent operation. But I live in a rural area where there's no radioparts store, no books on radio equipment, making this dream unrealizable. My life is basically spent indoors and in the yard in summer. I don't want to sit doing nothing. Please help!

Solidarnyy Village, Luganskaya Oblast'

I'm Gennadiy Polivanov, a first-group handicapped person since childhood. For 20 years now I've been interested in amateur radio. I went all the way from SWL to first shortwave category. But my health has been deteriorating. Only my right arm functions, and not very well at that. I've had to give up everything. New equipment is so expensive that we handicapped people will never accumulate enough money from our miserable pensions to buy it. City of Donetsk

I'm a handicapped person of the first group, stuck in a wheelchair. When I received an operating permit in 1979, believe me I sobbed for joy. And the day came when I first operated under the callsign RB5HCA. But, unfortunately, my transmitter soon went out of commission. I can't make an SSB transceiver, and as for buying one for 600 to 800 rubles, it's frightening even to think of such a sum.³ N. Lyapota, Village of Fedorovka, Poltavskaya Oblast'

Now it's time to report to you, dear readers, on correspondence with various agencies by the RADIO editors and by Nikolay Valentinovich Kazanskiy, UA3AF, Deputy Chief of the Federation of Radio Sport of the USSR.

We applied to the Charity and Health Fund. A positive-sounding reply came, requesting a copy of the Club's Rules. We sent the Rules, after which the Fund fell silent. It doesn't answer any inquiries.

We asked the Ministry of Defense to donate written-off equipment. In reply, we were sent a copy of an order sent to military districts directing them to transfer written-off equipment to handicapped persons applying for it. But when we checked, it turned out the order wasn't being carried out, for the simple reason that it never reached the military districts.

We also wrote tearful letters to numerous cooperatives advertising in "Radio" magazine. No answer.

To be fair, not all cooperatives are mesmerized by their profits and indifferent to the grief of others. For example, "Infotekh" in Minsk has put 153 handicapped persons on its rolls and is supplying them with its materials free of charge; last year it allotted R. 5900 to assist them.

Of course, an attempt was also made to get help from our own Central Committee of DOSAAF USSR. But after lengthy correspondence, Comrade Morozov, Chief of the Financial-Economic Administration, sent a definitive refusal. DOSAAF oblast' committees were more receptive to requests for assistance from the handicapped. For example, the Kurskaya Oblast' DOSAAF Committee supplied a "Yunost'" station worth R. 250.00 to V. Samokhvalov, whose letter RADIO had forwarded to it. Comforting news also came from Lipetsk, where the Oblast' DOSAAF Committee organized a fund for handicapped radio amateurs.

So we shouldn't despair. Compassion hasn't ceased to exist in our land!

SRAM-031 - Continued

----- "Our Debts" footnotes

²The article in question, also entitled "Our Debts," appeared in RADIO #07/1989 and was covered in SRAM-012. See Auto-Call for December 1989, pp 22 - 23.

³At the recently-announced tourist rate of 27 or so rubles to the US dollar, 800 rubles would equate to about US\$30.00 -- the cost of a restaurant meal in Washington. Many a Western ham might be willing to contribute \$30.00 to enable a handicapped Soviet ham to get on the air. Two questions that would need to be resolved are whether the exchange could be made at the tourist rate and whether the remittance could be reliably conveyed to the Soviet ham.

"WIDEBAND VERTICAL RADIATOR," by S. Spokoynova, UW1DC, XYL of UA1DZ

[Introduction by Boris Stepanov, UW3AX]

One day on my way to work in the metro, I was leafing through an issue of the American magazine "CQ" which had just arrived. It contained a report on the first world team shortwave radiocommunication championship last summer in Seattle. A photograph of the captain of the Soviet team, Georgiy Alekseyevich Rummyantsev, UA1DZ, reminded me that this week I must telephone "dee zed" about the next championship. That call was never fated to take place. The sad news of Georgiy's death arrived from Leningrad several hours later.

The amateur radio movement has lost not only an outstanding sportsman -- Meritorious Master of Sport of the USSR G. A. Rummyantsev was twice Champion of the World and of Europe, a world record-holder, and a winner of numerous all-Union and international competitions. It lost a Shortwaver. In general it's not so very difficult to become a shortwaver. But you can only become a Shortwaver when you have mastered the art of getting along with your on-the-air colleagues. Alas, some of us never manage to do this in a lifetime. Georgiy had this gift. Just as he was given talent as a radio engineer.

Georgiy left us at the very peak of his creative energy. Moreover, he left us at the very moment when he had decided to associate himself with the organizational work of the Federation of Radio Sport of the USSR.

In memory of him, we are publishing in this issue a short description of his well-known antenna.

[The introduction is followed by a shorter article containing a description and illustration of the UA1DZ antenna, signed by S. Spokoynova, UW1DC, described as the XYL of UA1DZ.]

[from "On the Amateur Bands" No. 1487, edited by Boris Stepanov, UW3AX, in SOVETSKIY PATRIOT #17, signed to press 23 April 1991]

UA1AD will be active as 4K1ADQ from Bellinghausen Station in the South Shetland Islands until March 1992. UA1AFM will operate as 4K1AFM from Novolazarevskaya Station in Antarctica until April 1992. QSL cards for both stations go to their home calls.

QSL cards for EO7LPK, who will be active 1 - 9 May 1991, are to be sent to P. O. Box 112, 470055 KARAGANDA. From UL8PC.

NOTE: According to an announcement in SOVETSKIY PATRIOT #09, February 1991, signed to press 26 February 1991 (received in Washington 1 June 1991) the Federation of Radio Sport will apply to the State Telecommunications Inspectorate of the USSR (equivalent to the Federal Communications Commission in the U.S.) to restore L. Labutin's (ex-UA3CR) permission to operate an amateur station. More in SRAM-032 next month.

ARRL Atlantic Division "Amateur of the Year"

Jacob S. Kovalchek, AK2I

In recognition of his outstanding service to Amateur Radio, Jacob S. Kovalchek, Jr., AK2I of Cherry Hill, NJ, has been named 1991's "Amateur of the Year" in the ARRL Atlantic Division. The award was presented on May 18 at the Division Convention, held in association with the Rochester, NY, Hamfest.

A past president of Philadelphia's Phil-Mont Mobile Radio Club, Jake instituted two of the club's best-known service programs: a "customized" weekly CW practice transmission on the club repeater, and monthly VE tests at the Franklin Institute Science Museum in Philadelphia. He is also an active member of Navy MARS and handled many messages during the Persian Gulf crisis.

For over thirty years, the Phil-Mont Mobile Radio Club has sponsored the W3TKQ station at the Franklin Institute, presenting Amateur Radio to thousands of visitors of all ages. Shortly after Jake was appointed club liaison, in 1990, he began to seek donations towards a complete revitalization of the display. W3TKQ was to become a state-of-the-art 1990's Amateur Radio station. As the first commitments came in, however, Jake was informed that the museum planned to close the station, on very short notice, as part of a general cost-cutting program!

Undaunted by what appeared to be a hopeless situation, Jake and Phil-Mont enlisted the assistance of ARRL Atlantic Division leadership. Negotiations with museum officials were successful in saving the station and securing a commitment to a continuing role for W3TKQ in the Franklin Institute's future plans. Jake proceeded to organize a crew of volunteer operators. Plans for the station's rehabilitation grew into reality, thanks to Jake's persuasiveness and the Phil-Mont membership's generous gifts of time, work, materials, and money. W3TKQ will resume operations later this summer as a station all Amateurs can be proud of.

In accepting the award, Jake encouraged all Amateurs to find out how much satisfaction can be derived from service to others. His efforts through the Phil-Mont Mobile Radio Club have created opportunities for many hams to take his good advice.

ARRL Atlantic Division "Grand Ole Ham"

Gerald Mathis, W3GM

Honoring a lifetime of service to Amateur Radio, the ARRL Atlantic Division's 1991 "Grand Ole Ham" award was presented to Gerald Mathis, W3GM, of Pennsburg, PA.

During the last 60 years, Gerry has led, trained, encouraged, coached, and motivated over 100 of the hams who have made the Frankford Radio Club the extraordinary contest club it is today. His famous multi-multi station offered many contesters the chance to sharpen their skills at the kind of station most people can only dream about. He gave up his single operator career in favor of the multi-multi that benefitted his club and its members.

Declining health recently forced Gerry to give up the rigors of maintaining a multi-transmitter station with 5 towers. According to Frankford President James Jarvis, N2EA, however, "W3GM's antennas and amplifiers are already distributed to a new generation of multi-multi's. The baton has been passed."

From the late 1930s to early 1950s, under his previous call, W3BES, Gerry served as ARRL's Section Communications Manager for Eastern Pennsylvania. . . .

Frankford Radio Club's motto is "Proficiency Through Competition." Gerry Mathis, W3GM, not only achieved that goal for himself but also helped many other hams to do the same.

The award was announced on May 18 at the Division Convention, held in conjunction with the Rochester, NY, Hamfest.

(Submitted by Atlantic Division Assistant Director Kay Craigie, KC3LM)

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AND COMPUTER FEST



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Recognitions

Congratulations to Nancy Alley - NT3Z on being awarded the Most Outstanding Citizen Volunteer award by the Office of Emergency Management. (AARC column, page 50)

Congratulations to JoAnn Simpson - KA3WPD who took first place in the Atlantic Division of this year's ARRL Novice Roundup. She made 341 QSOs and found 87 multipliers for a total score of 50,895 points, narrowly missing a national top ten score. JoAnn has had her license less than a year, upgraded to technician two weeks before the contest, and took time out during the contest to celebrate her 11th birthday. (SMARC column, Page 42)

Congratulations to ARRL on their new book *Now You're Talking*. Designed primarily as an introduction to Amateur Radio and the new no-code Technician, the book contains a wealth of general information. Our own **Luke Ward - KC4UJS** is featured in a ½ page side bar on page 11-9. This is a book you will want in your library. (See ad on page 53)

Hats Off to those Net Controllers

By Ken Easton, N3HLY

Have we ever paused long enough to think of all the time and preparations involved in handling Net Control? The RACES and ARES Nets, the Emergency and Disaster Control Net, Weather and Marine Traffic Nets, Routine and Emergency CW and Phone Net, Foreign Service and many other club activity nets. Let's tip our hats to all the Net Controllers. Those who volunteer many hours of their precious time so that most of us may enjoy safer and more productive lives.

Silent Keys

John Younkings - KV3B died suddenly on May 28. A Charter Member of MARC more than 25 years ago, John remained central to the activities of the Club until the day he passed away. He had held many positions in the ranks of Club officership and, at the time of his death, was Repeater Chairman. To a very great degree, KV3B was responsible for the continued influx of new members to MARC (via the Novice training classes.) Overall, the hobby has lost one of its staunchest supporters. (See MARC column on page 41)

(Submitted by N3HSA)

CORRECTION: The June issue reported on the death of Michael Pozzani - W3SV who was killed in an airplane accident. The heading was correct but a few lines down in the column he was referred to as W3AV. W3AV is hale and hearty and requests a clarification. Sorry, Robert. We try to watch these things!

We Goofed!



Ye Editor grabbed an old application form for the back page of the May issue of Auto-Call. It showed the subscription rate at the 1990 rate of \$6.00. As you know, we went up to \$8.00 at the beginning of the year. When people got a notice on the back cover saying it was time to renew, they simply turned over the page and filled out the application form - which said \$6.00. The editor was ready to make up the difference but the Foundation officials agreed to cover the loss. Some people recognized a bargain when they saw it and renewed for two years!

Well, now, the "grace period" will expire on the first of July. After that date, any subscriptions that come in at the \$6.00 rate will be entered as a nine months expiration. No more cheap lunch!

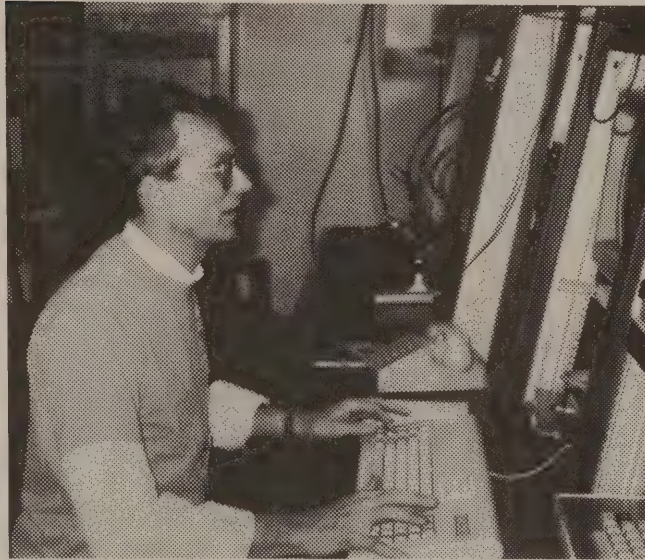
Ham of the Month

Charles E. Sommer, Jr. – N40SD

Chuck Sommer - N40SD has been an active ham for the past fifteen years. After getting the Lewis Amateur Radio Club up and running in Cleveland, Ohio, he was transferred here to NASA – Goddard and things haven't been the same since!

Chuck was nominated for *Ham of the Month* primarily because of his efforts to spread far and wide the message of Amateur Radio and the Shuttle Amateur Radio Experiment (SAREX) as well as Shuttle Retransmission. Chuck is an idea person primarily. He also loves watching the faces of kids of all ages light up when they make that first contact on the air, whether it be from a school in Bowie to a school class in Damascus or from the Goddard Amateur Radio Club to the Space Shuttle. He will do everything in his power to make that happen. As Chuck always says, "If you can get them talking on the air, some spark will remain and eventually you will have another ham."

Chuck's interest in the Space Program is also unflappable. He works as a Mission Planner for the Bendix Field Engineering Corporation in Greenbelt, Maryland. As such, he plans the communications for shuttle missions. This means that he is directly involved with the quality of the communications between the shuttle and ground control. Thus, whether he is working or at play, he is devoting his time to making communications between people better as well as promoting the space program.



As president of the Goddard Radio Club for the last two years, Chuck has expanded the horizons of the club significantly. In addition to shuttle retransmission, he has caused the club to become actively involved with emergency communications and has promoted a direct link between the GARC and Prince George's ARES so that the emergency communications group can count on GARC's facilities in time of need. The club handled communications and health and welfare messages during Hurricane Hugo as a result of Chuck's efforts. Contesting at the Club has become revitalized and Chuck most recently spearheaded the effort to have a Special Events Station at the club to commemorate the Tenth Anniversary of the First Shuttle Launch. He adopts a "can do" attitude no matter what the challenge, whether it be putting together the Fast Scan Television Uplink attempt equipment from scratch in two months or finding that particular little piece of equipment that was needed to keep the radios going for shuttle retransmission.

Most recently, Chuck has taken the message of Amateur Radio and the shuttle retransmission effort on the road. He and other officers of the club are making presentations to other local radio clubs, going out to schools to talk and having school groups in to the club to show them how Amateur Radio works in a hands-on environment. You will also see Chuck at many hamfests in the area, spreading the news of the GARC and Amateur Radio far and wide. (Continued)

Ham of the Month - Continued

Mr. Sommer's personal interests in Amateur Radio, in addition to SAREX and shuttle retransmission, include VHF and packet communications as well as putting previously dysfunctional pieces of equipment into working condition. He is also known for helping people find the right radio or other piece of equipment to get them on the air once they have obtained their license.

The biggest reason that Chuck Sommer has earned the recognition of the Foundation as *Ham of the Month*, however, is his constant promotion of Amateur Radio and his ability to encourage others to take that test, get their license and get on the air. He is a true promoter of the hobby, both at the local level and nationally.

Submitted by Vikki Gigante - KA3PVS

Ham of the Month Criteria

Following are guidelines for nominations for FAR HAM OF THE MONTH.

QUALIFICATIONS: ANY licensed Amateur in the local area who has contributed significantly to the Amateur service and/or its image in the community.

REQUIRED INFORMATION: 1. Name, call and address of nominee.

2. Description of the contributions which have been made by the nominee.

3. Name, call and phone number of person making the nomination.

NOMINATION FORMAT: Nomination in narrative form is preferred. Please be sure the material is factual. We would like to keep the finished article to no more than one page (about 1800 words), but you may write as much as you need to do a good job of "selling" your candidate. Any necessary editing can be done later by the committee. In most cases the committee will be in touch with the person who submits the nomination before publication is made.

AWARD PRESENTATION: Whenever possible, Ham of the Month awards will be presented by a FAR representative at a local club meeting or special activity.

There are over 50 clubs within the Foundation and there must be many "special" people deserving of recognition. Send in your nominations any time throughout the year. Development of the award process will be based on the volume and quality of activity.

Three Foundation Trustees will serve on the committee to select the FAR HAM OF THE MONTH. Both Maryland and Virginia residents are involved on the committee and they are hoping to receive nominations from all local clubs and all jurisdictions. election of one candidate will be made each month. Any additional nominations may be held for consideration in future months. We suggest maintaining confidentiality whenever possible. Any award is best received as a surprise.

For further information contact HAM OF THE MONTH committee Chairman Tony Young, WA3YLO at (301) 262-1917. Send nominations in care of AUTO-CALL.

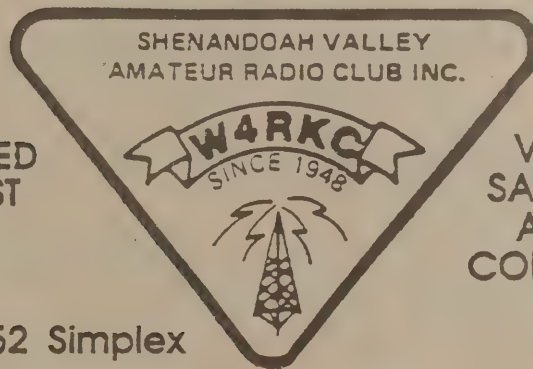
P.O. Box 7612
Falls Church, VA. 22040-1452

41th. ANNUAL SHENANDOAH VALLEY AMATEUR RADIO CLUB

WINCHESTER HAMFEST COMPUTER SHOW
SUNDAY, AUGUST 4th., CLARKE COUNTY RURITAN
FAIRGROUNDS, BERRYVILLE, VIRGINIA
BREAKFAST, SNACK BAR, RURITAN'S FAMOUS CHICKEN & BEEF BARBEQUE!

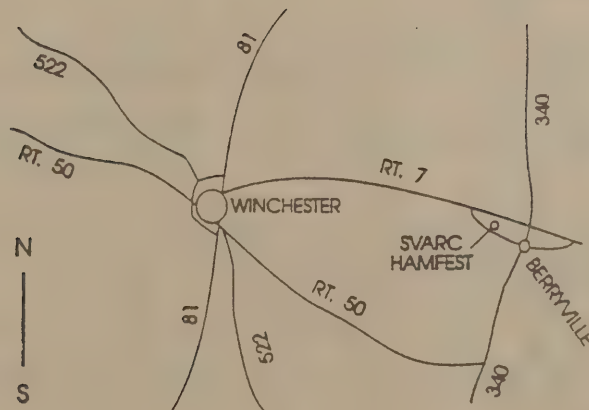


APPROVED
HAMFEST



MIDDLETOWN
V-E TEAM EXAMS
SATURDAY 8:30 A.M.
AT LORD FAIRFAX
COMMUNITY COLLEGE

Talk in 146.22-82 & 52 Simplex



Gate Opens at 6:00 A.M. - Admission \$5.00 - Tail-Gaters / Tables \$7.00

1st Annual

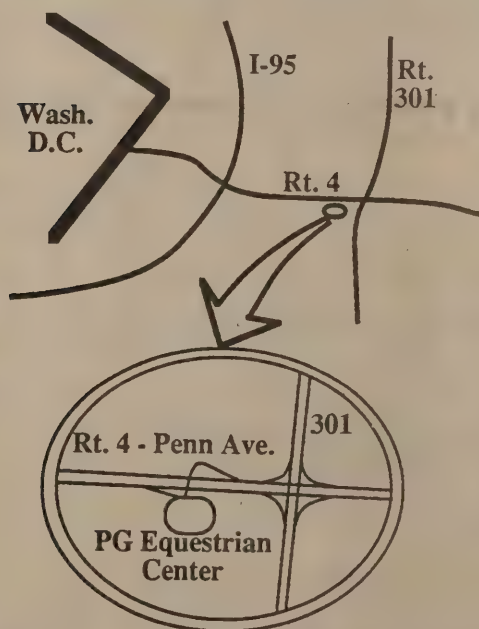
SOUTHERN PATUXENT HAMFEST

SUNDAY AUGUST 25, 1991
at the Prince George Equestrian Center
Upper Marlboro, Maryland

ALL Outdoor Fleamarket and Tailgating

Just 7 Miles East from
Beltway Exit 11
Pennsylvania. Ave. / Route 4

Vender and Tailgate Setup 7 a.m.
General Admission 8 a.m.- 2 p.m.



Rain or Shine

Advance Tickets \$4.00

At the Gate \$5.00

Tailgate Space \$5.00

Children

and Spouses **FREE**

Talk-in on: 147.15 Repeater

Plenty of Parking

ARRL Approved



For Advance Registration or More Information...

Mail to: Southern Patuxent ARC

1445-H Parran Road

St. Leonard, Md 20685



NASA Goddard Radio Club

Meetings: 3rd Wednesday of the month at 5:00 p.m.
Soil Conservation Road, Greenbelt Maryland, across from NASA main base at the club station (about 1/4 mile from Greenbelt Road on Soil Conservation).
Repeater: 146.835 W3ZM
Mailing: WA3NAN, Goddard Amateur Radio Club, P.O. Box 86, Greenbelt, MD 20768
Information: Chuck Sommer - N4OSD (301)794-3280; Vikki Gigante - KA3PVS (301)249-2609
Training: John Hueber - KA3PVM (301) 286-2481

The Goddard Amateur Radio Club recently held its annual elections. The new officers are:

Chuck Sommer, N4OSD - President
Vikki Gigante, KA3PVS - Vice-President
Carolyn Keydash, N3DON- Secretary
Ken Hersey, KA1HJP - Treasurer

A new Board of Directors was also elected. These are:

Jim Gass, N3CJN
John Hueber, KA3PVM
Stan Iarosis, N2US
Bill Graettinger, W3IUI
Pat Kilroy, WD8LAQ

The Goddard Amateur Radio Club has a busy year ahead of us. We are doing shuttle retransmission operations for another three missions until the end of the year. These are currently scheduled for July 25, the end of September and December. They are nine, five and ten day missions, respectively. As usual, we are looking to increase our pool of shuttle retransmission operators. If you would like to help, and the requirements are that you become a member of the club, have your amateur radio license and are willing to be trained to do the job, please contact Vikki Gigante at 249-2609 or Jeff Nucciarone at 286-1029. We are having trouble staying on the air for the duration of missions and if we have more help, we will be able to continue to support missions fully. Thanks.

In addition to shuttle retransmission, we are planning a Holidayfest with Tri-County Amateur Radio Club and Prince George's ARES. This is scheduled for Sunday, December 8 at Prince George's Community College's Student Union. For details, contact Chuck Sommer at (301)794-3280.

We will also be attending many of the local hamfests this summer to provide information and answer your questions about shuttle retransmission and the club. Stop by and see us!

We will be participating in a number of contests as a club this year as well. One is the Maryland QSO Party on August 17 & 18. We'll be defending our title from last year. Field day preparations are in order as well.

The ARRL will be hosting an Educational Symposium on Saturday, July 27 at GARC. The club is sponsoring this and we will be providing tours of the station and we might even have a shuttle up if we're lucky. So come down and see what we are all about and learn how Amateur Radio can be used as a teaching tool in the classroom.

On Wednesday, September 18, we will have our annual open house at the club station. All are welcome to attend. This event begins at 5:00 p.m.

Are there any YL's out there who would be interested in joining Carolyn and Vikki on a YL net? Give a call if you would to Vikki at (301) 249-2609 and we'll pick a time and day and a repeater frequency.

Vikki - KA3PVS

Laurel Amateur Radio Club

A Volunteer Examiner Coordinator

Meetings:	4th Wednesday of each month (except November & December) 8:00 p.m. at Harrison-Beard Building on the corner of 9th and Montgomery, Laurel, MD (Note new meeting place.)
Social:	2nd Wednesday of each month except December. (Call for directions.)
Nets:	1st & 3rd & 5th Wednesday of each month, 8:30 p.m. on 147.54 simplex.
Mail:	P.O. Box 3039, Laurel, MD 20709-0039
Exams:	3rd Saturday of each month, 10:00 a.m. at Maryland Radio Center.
Information:	Bill - KD3EC (301) 776-4083 or Jim - WI3N (301) 725-6829

The Laurel Amateur Radio Club is active in the Laurel area, which we think generally includes most of Northern PG County, as well as the surrounding area in Howard, Montgomery, and Anne Arundel Counties. All Amateurs in "our neighborhood" are welcome to participate in LARC activities.

The month of May found the Laurel Amateur Radio Club involved in two of its major service event of the year. On Sunday, May 5, we met at 7:30 a.m. to set up our booth and begin providing communications for the Montpelier Festival. This is an annual event which has been going on for twenty years on the grounds of the Montpelier Mansion on Rt 197 in Laurel.

While this was the second year the LARC had a booth, it was the first year of providing communications. By 8:00 a.m. LARC shadows were deployed to the key event people. Shortly thereafter, the rest of the members had the booth set up, two hf rigs working a 10-15-20 meter vertical and a 40-meter dipole, and a vhf rig operational. We had a speaker rigged up to broadcast the QSOs. We also put the shuttle transmission rebroadcast by the Goddard Club over the speaker, which proved to be a crowd pleaser. The organizers were very happy with how smoothly their operations went because of our help with the communications, and we have been invited back next year.

Our second event occurred on May 18. That was the Main Street Festival, for which we have been doing the communications for over a decade. Club members and friends met at "on dark thirty" (6:30 a.m.), assembled our booth and got two 2-meter base stations operational, running off battery power. We needed two stations because the communications was divided between two committees - the overall event organizers and the parade committee. This allowed us to handle the two groups on different frequencies. (See photo on next page). Several of our club members deserve special

thanks for attending numerous meetings with the organizers during the middle of the day.

Kathy - KA3HSC, Pud - W3DQI, Howard - K3IOG, and Cathy - KA3QPU sometimes were the majority at the meeting. Their consistency allowed the event to run smoothly. The only glitch in the operation was at the only meeting attended by the police department - when the officer announced that the police did not need a Ham near the police dispatcher, as we had done in previous years. They could handle everything themselves, thank you. Needless to say, several incidents arose when the position would have been invaluable. I think next year that position will be filled. The lesson here is that government agencies still need to be educated to the fact that Hams can provide a useful adjunct to their communications program.

Finally, the LARC has changed its meeting venue to the Harrison-Beard Building located on the corner of 9th and Montgomery Street in the City of Laurel. This building was originally built in 1902 as the city fire department and converted in the mid-fifties to become city hall. It is now used as a meeting place for community groups. The club has also secured use of a 10x10 room on the second floor as a storage place for club equipment and a place to set up a club station. We have access to the roof and anticipate some type of hf operation by Fall. Many Hams in our dense area are unable to work hf due to antenna covenants and restrictions. Hopefully, this station will allow them the opportunity to keep their voices and fists in hf and also be used occasionally for some contesting.

Jim - WI3N

Metrovision Amateur TV Club

FAST SCAN - COLOR - ATV

Meetings: Quarterly: Call for next meeting time and place.
Repeater: WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out
Also accessible on 144.970, simplex, audio.
On-the-air: Sundays at 8:00 p.m.
Mailing: Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information: Dick - WB3EPX (301) 439-8135
Gene - AD3F (301) 774-5307

I want to take this opportunity to thank all of the Metrovision members and other Amateur Radio friends who sent flowers, cards, prayed for, and made phone calls to my XYL, Jan, who recently underwent cancer surgery at the National Institutes of Health. Both Jan I really appreciated the thoughtfulness of those concerned. Jan will be undergoing several months of chemotherapy, but I know that with God's help she will do ok. I will keep you all informed. I also want to thank Bernie - WD4O and Skeeter - WA3UDY for filling in for me on the Sunday night ATV net during my wife's illness. That helped me a lot.

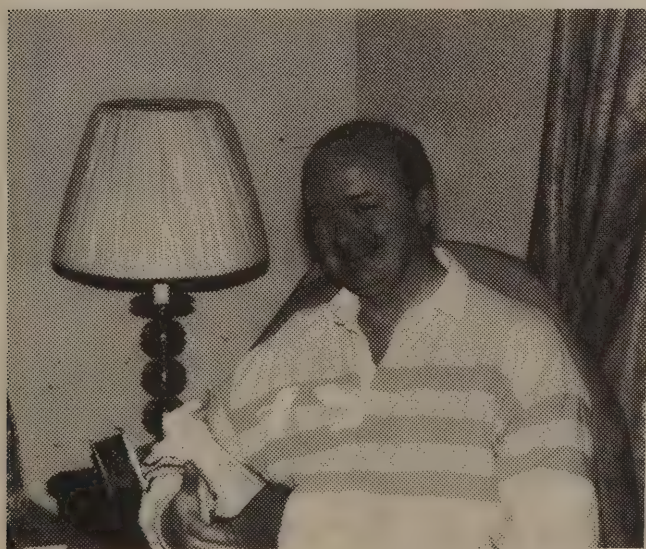
We still plan on having the Metrovision picnic and train trip, but because of my situation, our vice-president, Gene - AD3F will be coordinating these two events for me.

If you have any questions about either of these events, please give Gene a call at the above telephone number. I extend my thanks to Gene for his help at this time.

As of this writing, Bruce - WA9GVK is still in the process of assembling the new 440 MHz transmitter for the repeater site. With the new 440 MHz receiver already in operation, and the new transmitter just about ready for operation, we all should notice a remarkable change in the video and audio quality of the ATV repeater. We are still encouraging our members and friends to try the new 900 MHz link on the receive side as this mode is all but interference free.

See you on ATV.

Dick - WB3EPX



Warren Bain - N4WMU



Lee Love - N4LXI

At the March Metrovision Meeting

Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.
Time and place to be announced.

Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out.

On-the-air: Saturdays at 2000 hours (During Daylight Saving Time)

Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903

Information: Bob Sporn - WA3GGO (301) 434-1719

Maybe it was the Gulf War which brought MARS operations into the limelight, but more of our members have joined MARS recently. The newest member is David G. Bennett - KA3TQA who joined Air Force MARS.

THE SUNDAY MORNING COFFEE NET (50.4 MHz) AM AT 0900 HOURS.

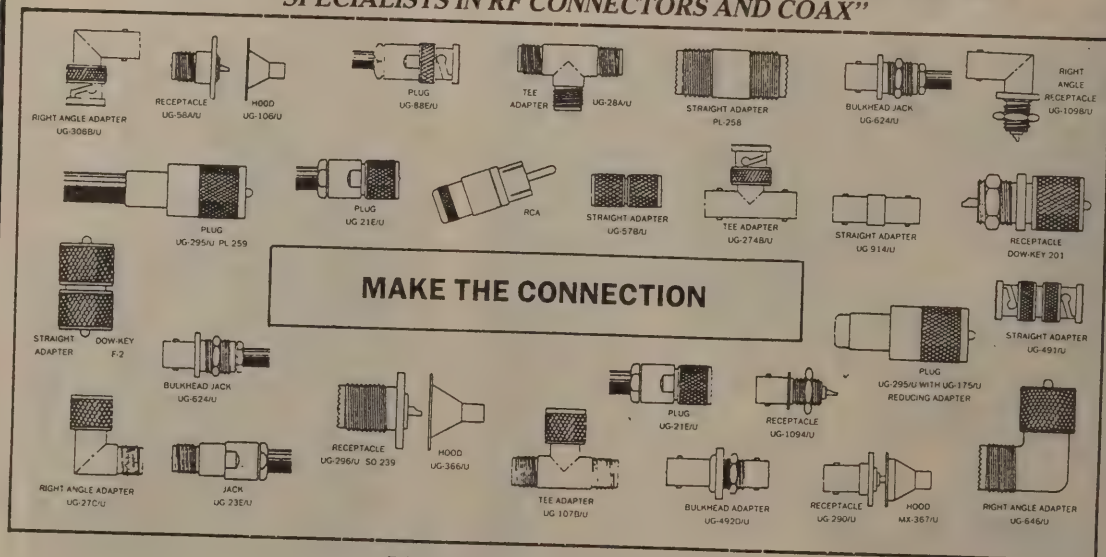
Bob Curray - KC3VO, despite his busy schedule, manages to check in regularly, as does Stanley Brigham - W3TFA; and Peter Lassovszky - WB3KQM, of McLean, Virginia, surprised us May 12th by checking in. We had met him on the air some months ago.

MARYLAND FREESTATE SIX METER SIDEBAND NET (50.125 MHz) SUNDAYS AT 2000 HOURS EDST. On this net we are pleasantly surprised when, from time to time, we get new check-ins from outside our immediate area. Ed Pliner - N9CLG from Pittsville, Wisconsin checked in the other day; Leland E. Hughes - WA2VPH interrupts his project of building hi-pass filters, to join our net. Let us keep six meters; you can help by joining our nets.

Bob - WA3GGO

The R.F. Connection

"SPECIALISTS IN RF CONNECTORS AND COAX"



The R.F. Connection

213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877
301-840-5477

280

Montgomery Amateur Radio Club

Meetings:	1st and 3rd Wednesdays of each month at 7:30 p.m. Executive Office Bldg. Montgomery Co. Government Center, 101 Monroe St., Rockville, MD. Park underground on G-2.
Repeater:	146.04 in (Rockville & Germantown)/146.64 out (Rockville)
Mailing:	M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611
Information:	Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172
Training:	Ken Nichols - KD3VK(301)977-5405; Dick Hayman - K3DML (301)251-8721

KV3B IS SILENT KEY

It is with the most profound sadness and regret that MARC announces the sudden and totally untimely death of John Younkins - KV3B on May 28. A Charter Member of MARC more than 25 years ago, John remained central to the activities of the Club until the day he passed away. He had held many positions in the ranks of Club officership and, at the time of his death, was Repeater Chairman.

To a very great degree, KV3B was responsible for the continued influx of new members to MARC (via the Novice training classes.) Despite the institution of the codeless license, John's enthusiasm for cw was infectious and transmitted to his students, many of whom passed their 5 wpm Novice code exams under John's watchful eyes. Without John's moral support and unflagging code practice sessions, it is unlikely that this Amateur Reporter would have upgraded to General/Advanced class in a timely fashion - if at all.

Overall, the hobby has lost one of its staunchest supporters now that KV3B has joined the ranks of Silent Keys. But those of us who knew him inside the club have been enriched by his presence and will continue to fondly appreciate our shared and collective memories of one of Amateur Radio's shining examples.

Throughout the so-called 'merry month' of May, the Montgomery Amateur Radio Club continued with a busy schedule of Club-related programs and Public Service activities. At the first regularly scheduled meeting of the month, the business meeting consisted of officers' detailed reports and sign-up sheets for upcoming events supported by MARC. Among the most notable of these is MARC's annual Field Day event (featuring QRP). Another important sign-up sheet was initiated by Repeater Chairman, John - KV3B for the

hottest Ham ticket in town - namely the Gaithersburg FAR FEST - reputed to be the largest such event on the East Coast and scheduled this year to kick off on Sunday, September 8. John is looking particularly for rotational help to support MARC's dual Talk-Ins: 'DX Talk-In' from the home QTH and Local Talk-In from the traditional Van/RV portable site.

The program portion of the MARC meeting for May 1 consisted of a combination "hardware demonstration and clinic" - presented by Jerry Simon - N3HVC. What began merely as a capabilities overview of some state-of-the-art Hewlett Packard equipment rapidly turned into a "hands-on" workshop with MARC members (assisted ably by Jerry) understanding how to use the HP 8920 A RF Communications Test Set to verify the formal frequency specifications of their Hand-Helds. Designed by the manufacturer to be a full-featured service monitor in a ruggedized and portable package, this tool may be used on the bench or in the field. As described by Jerry, the HP 8920 A is a one-stop solution for bench service containing:

- Comprehensive radio test capability
- High-performance spectrum analyzer with tracking generator
- Signaling encode and decode
- Built-in computer for automating measurements.

According to Jerry, the same tool may also be used for field maintenance and repair of communications systems. (Even if he is a wee bit biased in favor of the HP 8920 A's functional superiority, Jerry is to be congratulated for sharing with MARC the benefits of his knowledge and technical experience.)

In the realm of Public Service, MARC provided communications support to the annual Bethesda Chevy-Chase Day Parade,

(Continued on page 42)

Southern Maryland Amateur Radio Club

Meetings: 2nd Friday of each month at 7:30 p.m.
Church of the Nativity, 5203 Manchester Drive, Temple Hills, MD
Nets: Tuesdays at 8:00 p.m. on 147.75/15 Repeater
Thursdays at 8:00 p.m. on 28.447 USB
Packet: WA3TAI full service PBBS in Accokeek, MD 145.03 & 446.075
SMD (WA3TAI-5) NET/ROM Node in Accokeek, MD 145.03
Repeater: W3PT/R 147.75/15 in Cheltenham, MD. Autopatch to 911
Mailing: P.O. Box 273, Cheltenham, MD 20623
Information: Vic & Linda Curtis, WA3YUV & KA3VNI (301)888-1388

SMARC'S YOUNGEST MEMBER SCORES BIG IN NOVICE ROUNDUP.

JoAnn Simpson - KA3WPD, took first place in the Atlantic Division of this year's ARRL Novice Roundup. She made 341 QSOs and found 87 multipliers for a total score of 50,895 points, narrowly missing a national top ten score. JoAnn has had her license less than a year, upgraded to technician two weeks before the contest, and took time out during the contest to celebrate her 11th birthday. As if all that weren't enough, she recently collected her last QSL card for WAS and sent that application off to Newington. Her father - WI3A is still waiting for his last few cards to come through.

A picture of JoAnn at her station is the lead photo in the article on page 95 of June QST.

Other SMARC members have been busy on the air lately, too. WI3A is joined by WK3I and WD3P at the mail box, looking for those last few WAS cards. WK3H bought a nice frame for his new DXCC certificate and now has over 150 countries confirmed and over 200 worked. KO7V has finally broken the 300 country mark, thanks to some recent DXpeditions.

Field Day will be over by the time this is published, but it's still in the future as this is being written (only one day after the due date). I don't know exactly who was (will be) there, or exactly what they did (will do), but I can confidently report that everyone had a great time and no one went away hungry.

Mike - KO7V

Montgomery Amateur Radio Club - Continued

a regular MARC sponsored event, held this year on Sunday, May 5, along the usual Wisconsin Avenue route. Chaired again by Hank - N3ESR, this event was very well supported by MARC and other local ham clubs, with the result being a surplus of volunteers - the kind of "problem" most event chairmen would have no complaints about!

Appreciation is expressed to the many members of MARC who gave of their time and talents to make this community event a success. Wishing not to "steal Hank's thunder," we'll let him publish the names of the individual volunteers in his "Public Service Report."

Once a quarter, MARC hosts a dinner meeting at Ernie's Pizza Parlor in Gaithersburg. On May 15 this year, the second quarter's version of this social event was held. Although the Amateur Reporter was unavoidably detained (derailed?) in the Dallas-Ft. Worth Metroplex area and has no first-hand impressions of the scene, rumor has it that the back room of Ernie's was packed to the rafters - i.e., attendance stood at 28 and counting! Thus, a reasonable presumption can be drawn that a good time was had by all.

Erinn - N3HSA

Pentagon Amateur Radio Club

Meetings Monthly, on the second Wednesday of the month. Noon.
PARC clubroom (5B272), The Pentagon

Repeater: K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.

Packet: 145.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN

Mailing: P.O. Box 47063, Washington, DC 20050

Information: David G. Boyd - K9MX (703) 695-2020 or (703) 659-6241 or
William Klein - N4VBW (703) 697-8157 or (703) 590-2546

The PARC antenna party didn't get everything fixed, but at least the rotor indicators now actually indicate the right direction. It's no longer necessary to add 73 degrees for the tribander, and subtract 47 degrees for the monobander! N3DAN, KA3VNE, K9MX, KC7SE, W0IVI, and K3NF invested two long lunch hours resetting things, sorting out old cable and generally cleaning things up. Unfortunately, we don't have any sergeants active in the club at the moment, so we weren't as well organized as we might otherwise be, but we do plan to hook the antennas back up soon. But they do point the right way! . . .

Dave Schwankl - W0IVI and Paul Bauer - N3DAN are both hanging up their uniforms this month and moving out. Paul already has his house sold, but we understand he hasn't yet rented the heavy equipment transport to move all his antique Collins am gear. Dave is already planning the antenna system he'll be putting up when he gets to Alaska this summer, so we should hear lots from W0IVI/KL7.

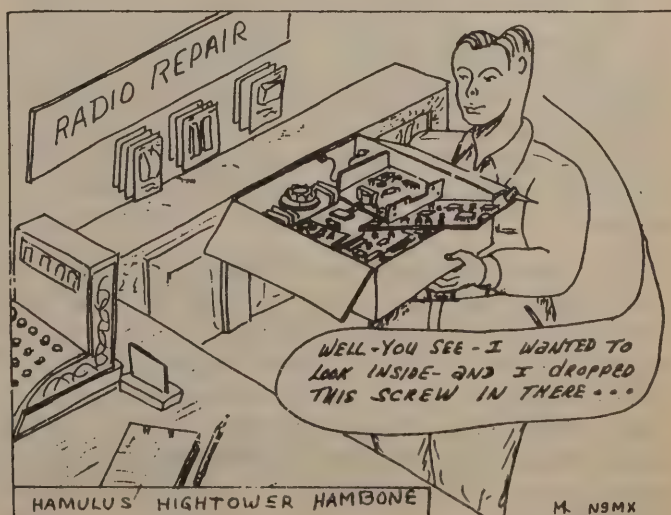
Armed Forces Day produced nearly 700 contacts, with dozens overseas. Replying to all the QSL and certificate requests is going to take a while. Among the operators present (and apologies to any omitted) were W0IVI, K3NF, N4VBW, N4VZU, N3DAN, KA5NLY, K9MX, and KC4LRX.

The club also supported a demonstration for Lake Elementary School in Granite City, Illinois. An HF packet link was initiated from K4AF by K9MX, through Max Boyd's (N9MX) gateway in Collinsville, Illinois. The VHF link then ran to a portable station in the school operated by Tim Boyd (KT9O). The contact ran for over an hour and allowed keyboard conversations with dozens of students, all of whom will be receiving Pentagon certificates and QSL cards.

Army MARS was selected to represent all of MARS at the DESERT STORM victory parade through Washington, so at the request of the Eastern Area Army MARS Director, K4AF will be providing packet support for the Parade. Since PARC only had an Air Force MARS license, PARC was issued AAR3CAF and licensed as an Army MARS club station. We'll be providing a link from the demonstration booth on the mall to the main station at Ft. Detrick, MD. One unfortunate note - the linear amplifier we loaned to a MARS station deploying to Saudi Arabia before the Gulf War, is a confirmed casualty. It blew a final and will be coming back to us in an inoperable condition, but it was a worthwhile effort. Actually, we thought there was a fair chance it wouldn't come back at all. We've been needing a new one anyway . . .

Paul - KC7SE is on packet now, after a frustrating battle with a balky TNC. Those of us who know him are still convinced he solved the problem by plugging the audio line into the TNC but just won't admit it.

Spike, K9MX



Antietam Radio Association

W3CWC

Meetings: 1st and 3rd Tuesdays of each month at 8:00 p.m. at the Civil Defense Center, Washington County Courthouse Hagerstown, Maryland

Nets: Tuesday: 7:00 p.m. 146.940/340 MHz FM
Wednesday: 7:00 p.m. 447.975/442.975 MHz FM
Thursday: 7:00 p.m. 147.090/690 MHz FM

Mailing: Antietam Radio Association, P.O. Box 52, Hagerston, MD 21741

Maryland/District of Columbia QSO Party

This month's Antietam Radio Association column will be devoted to the MDC QSO Party written by Page Pyne - WA3EOP. See the next page.

Don Marsden - KD3TY

Maryland Mobileers

Meetings: First Friday of each month at 1930 hours. Basement of Police C.I.D. Building at Crownsville State Hospital Grounds
Route 178 and Crownsville Road.

Repeater: W3PJQ 146.805 MHz (output) in Millersville

Nets: Mondays - 2030 on 146.805 - Traffic and Information Net
Tuesdays - 2000 on 144.215 - SSB Net
Wednesdays - 2000 on 147.495 - FM Simplex Net

Contact: Bill Dillon - WA3SCW (301) 551-8972 (@ WB3V in Packet)

Address: P.O. Box 935, Severna Park, Md 21144

In May, Maryland Mobileers ARC members enjoyed a fine presentation by Bob Bruninga - WB4APR. Bob presented a program on the capabilities of the 40-foot satellite antenna control facility at the Naval Academy grounds. Demonstration of OSCAR satellites and shuttle communications were shown.

Thanks to the efforts of John Kohl - KO4A and Glenn Durbin - N3EYU, 13 of the 13 students in the recent MMARC Novice class passed their Novice class examinations. Additionally, 11 of the 13 students passed their Technician examinations. All students who passed at least the Novice examination were given free membership in MMARC for 1991.

In addition to the new Novice class graduates, Chris Erwin - KC4GWK has become a new MMARC member.

Upgrades included WJ3D (ex-N3GOS), WN3G (ex-N3EYU) and WN3C (ex-KD3QA). Congratulations!

MMARC is upgrading its repeater with the acquisition of Hamtronics modules. So far the receiver module has been built and will soon be installed, followed by the purchase of the transmitter module.

KO4A, N3EYU and WA3SCW provided communications for the Annapolis Heart Association Walk-A-Thon.

Bill - WA3SCW
Secretary

The ANTIETAM RADIO
ASSOCIATION
W3CWC



PRESENTS THE 1991 EDITION OF THE
Maryland - D. C.
QSO Party

1600Z Aug. 17- 0400Z Aug. 18 & 1600Z-2359Z Aug. 18, 1991

PHONE AND CW: STATIONS MAY BE WORKED ONCE PER BAND USING EACH MODE. *CW QSOs IN THE CW BAND ONLY.* NON-MARYLAND STATIONS MUST WORK MARYLAND/DC STATIONS. MARYLAND/DC STATIONS MAY WORK ANYONE.

Portables and Mobiles that change Maryland counties during the contest count as a separate station in each new county of operation. *No repeater QSOs count.* Other HF and VHF contacts do.

EXCHANGE: Signal Report, QTH **AND MAJOR CATEGORY OF ENTRY.** QTH is county for Maryland Stations, U.S. State or if DX, Country of Operation. Major Categories of operation are CLUB, QRP, MOBILE, NOVICE, TECHNICIAN, and STANDARD Category Entries. Stations should send only The most Major Category of Entry.

SUGGESTED FREQUENCIES: SSB 1.86, 3.92, 7.265, 14.28, 21.37, 28.37, 50.15, & 146.55 Mhz
CW 3.643, 7.06, 14.04, 21.115, 28.06 MHZ
CW suggested on the odd half hours. Examples 1730, 1930, 2130 UTC

SCORING: For Non-Maryland/DC stations-Each Maryland County, Baltimore City and D.C. are Multipliers (25)
For Maryland/DC Stations, Multipliers are Maryland Counties, Baltimore City, D.C., Each of the 49 other states and one Multiplier for working a DX station (75 possible multipliers!)
Multipliers may be claimed once only- they do not repeat on different bands.

QSO POINTS: 10 Points for Club station QSOs (Clubs may be in or out of Maryland ! for MD entry)
5 Points for Mobile station QSOs (Mobiles anywhere for MD stations)
2 Points for direct contact by CW (including RTTY/digital modes)
1 point for any other valid contact

Special note: Highest Point Value per QSO Applies (example a CW/Mobile contact is 5 points)

FINAL SCORE: Add up all QSO Points and multiply by the sum of the multipliers. Mobiles may add 100 bonus points to their final score for each county outside their home from which 20 QSOs were made.

AWARDS: High score verified from each U.S. State, Canada, or DX
Top 3 Maryland logs; High scoring Maryland Club Station; High scoring Maryland Mobile with QSOs from 2 or more Maryland Counties, High scoring Maryland YL, High Novice & Technician Entries
* Certificate to each Station with at Least 100 QSO POINTS in entry
SWL award for the best log from a SWL (must not be a ham)
High scoring QRP ENTRY (no state restriction)
Decision of the judges are final. The committee reserves the right to add other awards if deemed appropriate by the Association.

Logs should be mailed to the contest chairman by September 10, 1991. Indicate on your log your complete exchange information and your categories of entry. (Mobile, Club, Novice, YL, QRP, Etc.)

Mail logs to:

ANTIETAM RADIO ASSOCIATION P.O. BOX 52 HAGERSTOWN, MD 21741 - 0052

DIRECT ANY QUESTIONS TO WA3EOP, CONTEST CHAIRMAN. INCLUDE S.A.S.E. FOR CONTEST RESULTS !

Maryland Emergency Phone Net

Meetings: Every night, 3920 kHz, 1800 local time.
Net Manager: George Korper, WD3W
Secretary: Jim McCoy - N3EI
Treasurer: Rino Masso, KC3ZJ
Directors: W3DQI, W3LDD, KD3JK, NF3X (Alternate)
FAR Representative: KC3ZJ

The Maryland Emergency Phone Net (MEPN) is a club, a member of the National Traffic System (NTS), and meets every night on 3920 kHz at 1800L for the purposes of training operators in net procedures and traffic handling; to handle traffic for Maryland and the District of Columbia; and to establish communication links in these areas so that, in the event of an emergency requiring Amateur Radio communication assistance, the MEPN will be prepared to exercise these links until the emergency subsides.

All Radio Amateurs are invited to participate in the MEPN, and those wishing to join the club and receive the monthly bulletin and rollcall sheet should contact either WD3W or N3EI. Yearly dues are \$7.00. There are currently 61 members.

The MEPN Picnic is just around the corner. On Sunday, July 7, in Davidsonville, MD, WA3YLO will "host" the annual picnic. Exact times and places will be in the newsletter, but I'm guessing that talk-in will be on 147.105, if you need help. We hope to see you there this year . . . there has been a lot of talk that "we're going to try to make it this year" . . . this could be the biggest and best ever. This is a family event . . . BYO food and drink, . . . and BRING A FRIEND!

The 3RN schedule has changed for the summer, and what a relief that is. Now, at 1600L (Note the time change) you can actually hear net control. The MEPN is still looking for a few more liaisons to 3RN (and if you hear someone else from MD, just check in anyway). 3RN will probably stay on FORTY until wintertime propagation favors 75 again - September/October???

HEARD ON THE NET: Tony - WA3YLO has escaped the heat with a short trip to Canada, but he'll be back in time for the picnic; Bob - K3ONU has been talking about radio controlled boats, and has actually built one . . . must be nice! Pud - W3DQI is off packet for awhile but really enjoyed the time he had the borrowed rig . . . probably get back on for good in the fall. Arthur - WA3UVQ has been relaying the WWV reports on the net, and has some interesting statistics on sunspots. What's your secret, Walt - W3LDD? Why does Donna - N3HYF (XYL of George - WD3W) talk to you, and you alone?

Anybody read the June QST article listing the DXCC honor roll? Lot of familiar call signs . . . CONGRATULATIONS, GUYS!

See you ON THE AIR.

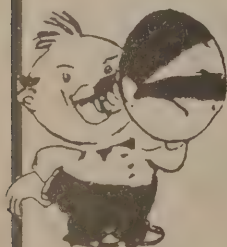
PUD - W3DQI

QCWA NATIONAL CONVENTION

September 27 - 28
Canton, Ohio

Hosted by The "Hall of Fame Canton Chapter 21"
Parke Hotel - 4343 Everhard Road N.W., Canton, Ohio

For further information, Call Dennis Moriarty, K8AGB
2445 - 40th St., NE, Canton, Ohio 44705 - Phone (216) 452-3872



Southern Patuxent Amateur Radio Club

Meetings: 2nd Wednesday of each month at 7:00 p.m.
Southern Community Center, Lusby, Maryland

Nets: SPARC Phone Net every Thursday at 9:00 p.m. on 28.410
Swap N Shop every Thursday at 9:00 p.m. on 28.410
SPARC CW Net every Thursday at 9:30 p.m. on 28.150

Repeater: 443.3 (out) / 448.3 (in) St. Leonard, Maryland

Address: 1445 Parran Road, St. Leonard, Maryland 20685

Information: Jay McClain - N3HUH (301) 994-2133 or
Dwayne Kincaid - WD8OYG (301) 586-2177

Southern Patuxent ARC is proud to join the ranks of many other clubs that belong to the Foundation for Amateur Radio. Our club was formed just 2 years ago with a grand membership total of 7. This month we reached member number 100.

The majority of our club is set up to cover Amateur activities in Calvert and St. Mary's Counties. The public service department provides service for about a dozen events each year, mainly running races.

Southern Patuxent ARC sponsors the 443.3 repeater in St. Leonard, which was just put on the air recently. It provides fair coverage for Southern Calvert and Central St. Mary's. A commercial strength, 110 foot free-standing tower was donated to the club early this year and will be used in several repeater, link and packet projects.

The Spring Novice/Technician/Technician-Plus class finished in May with a total of 12 Novices, 14 Technicians (No-code) and 9 Technician-Plus. The follow-up General 'theory only' class currently has 12 students.

Special thanks to Mike Markowski - N3JDD, Bob Smith - N3IFL, Jay McClain - N3HUH, Ray Rollins - KA3WID, Warren Dean - KW3N and Bill Quinlan - N4VJ for their assistance in the class.

The club will also sponsor the Southern Patuxent Hamfest on August 25. (See the flyer on page 36). Since this is our first hamfest at the Upper Marlboro location, we plan to start out with plenty of tail-gate spaces and parking.

This year's Field Day will again be at Cove Point Park in Southern Calvert County. We will set up a 7A station for the expected 40 members to operate.

Up-coming meetings include communication lectures from the Calvert Cliffs Nuclear Power Plant and from a local Volunteer Rescue Squad.

Dwayne - WD8OYG

Computerese



Remember how you used to "QTA that message." Now you F1 it!
And you used to "QSY" to move somewhere else. Now you Shift F3
And even SOS could now be translated to F3 F3 F3.
It was bad enough learning the "New Math," but I'm getting lost in this new computer jargon!

Consider, too, that the typist used to use White Out to correct a mistake. Now she pushes Delete. Instead of inserting carbon paper she hits Shift F7. She also through out Webster's Dictionary and now just uses Control F2. A Secretary ain't what she used to be!!!

K4LMB - Inspired by June WordPerfect Magazine

M A D R A S

The Maryland Apple Dumping Radio Amateur Society Inc.

Meetings: 2nd and 4th Tuesday of the Month - 7:00 p.m.
At the WKYS conference room in the NBC Building,
4001 Nebraska Avenue, N.W. Washington, DC
Repeater: 444.100/449.100 MHz 145.45/144.85 MHz
Mailing: P.O. Box 2468, Wheaton, MD 20902
Information: Larry Zeicheck, N3GKZ (301) 984-6112

Schedule of Events:

July 23, 1991 - Regular Tuesday meeting at 7:00 p.m.
Madras meetings are held at the WKYS conference room in the
NBC building, 4001 Nebraska Avenue, NW. Washington D.C.

DX TO LEBANON ENCORE!!

MADRAS member Hani Raad N3IWM will be returning to Lebanon for a while. During his return he will be on the air "almost constantly!!" If you would like to work Lebanon here is how to work Hani: Starting July 13 you can work Hani Raad N3IWM with his Lebanese call OD5RH. He will be using OD5RH NOT N3IWM. He will work simplex, no split operation.

Here are the Frequencies and times (all times are EASTERN TIME):

TIME	BAND	VOICE FREQUENCIES	CW FREQUENCIES
8:00 a.m. - 11:00 a.m.	10M	28.360+-5kc.	28.125+-5kc.
8:00 a.m. - 11:00 a.m.	12M	24.960+-5	
8:00 a.m. - 11:00 a.m.	15M	21.260+-5	21.125+-5
5 p.m. - "he drops"	20M	14.260+-5	

Also Hani will be on the air during two nets:

The "Family Hour Net" from 7:00 p.m. - 8:00 p.m. ET on 14.2265

The International air traffic control net starts at 6:00 p.m. ET on 14.277

NEW CODELESS LICENSE CLASS COURSE GIVEN BY MADRAS!!

For those who wish to join the ranks of Ham radio Operators and work voice, packet, etc. on the VHF/UHF/SHF bands the MADRAS club has a class forming the Saturday after Field Day, June 29. This class will be held every week until August. The class will start at 10:00 a.m. and will last approximately one and a half hours. Although the course is primarily theory and FCC regulations, the class has access to a full ham radio station and code practice facilities for those having higher aspirations. Please call Larry Ziecheck N3GKZ for directions to the class (984-6112).

Call for Papers

1991 Proceedings of the ARRL Educational Workshop

Your papers are invited for inclusion in the 1991 Proceedings of the ARRL Educational Workshop. Topics include all aspects of Amateur Radio recruiting, such as: Using SAREX or school programs to recruit youth; How to target seniors, engineers, women, etc.; How to get PR through broadcast or print media; How to get a recruit to commit to attend a class; or any related subject. Write to ARRL EAD, 225 Main Street, Newington, CT 06111 for your Proceedings Author's Guide.

ARRL EAD

Stafford Amateur Radio Association

Meetings: Weekly, 0730 a.m. every Saturday morning. at the "Nothin Fancy" Cafe on Route 1. All meetings are informal.
Repeater: N4SMP/R 145.27 out 144.67 in. Autopatch for members.
Mailing: c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232
Information: Dick Kirby - W4GFB (703) 720-0406 or George Gautney - N4SMP (703) 659-5720
Packet: 145.07, W4GFB-2

The Stafford Amateur Radio Association has been busy this past month! We have a new dual band antenna up to support both our repeaters - the faithful old 145.27 machine, and the new 440 machine. The UHF repeater is currently undergoing coordination tests on 448.975 mHz, but will soon move to 444.475 (transmit) and 449.475 (receive). In the meantime, the test frequency is available for use (with a normal five megahertz downshift).

Coordination for Field Day is complete, and we have a site secured at Quantico, near the MARS station. In fact, we coordinated so well that we had two weekends reserved. First, we set up the last weekend in June, until we discovered Field Day is on the fourth weekend - a week earlier. But at least we got it done. We'll blame that (whether it's his fault or not, or whether he was even involved or not) on Dick - W4GFB. Anybody who owns a lawn tractor but can't use it because his wife won't allow him to . . .

John - N4WRT promises to break his record for last year's Field Day. Last year, on 20m SSB, he noticed the band was awfully quiet, but - good contester he is - he fought it out anyway, until someone finally noticed he was operating with a dummy load for an antenna. In the meantime, he's opening up an optical shop (we're told his optical work is a lot better than his field day operating), and is even offering space for a Novice HF station for the radio club.

Our 31 May test session was the best ever, with some 30 applicants taking nearly 100 different tests. The final tally was seven new codeless technicians, five technicians with code, two generals, one advanced, and two extras. Thanks to Jim McCloud, lots of hams in the Stafford area now have licensed XYLS. He ran a special class, just for XYLS. Lew - KC4HR even passed his extra exam, although we're

still trying to figure out how. . . . Jerry Mullinix - KC4OUN is also an Extra now and has already been drafted onto the VE team. Tom - KD4AOD nearly lost his mind during the test. One of the "victims" was his XYL, so he was already on edge when we started the code tests. Because of a minor technical error, we had to run a second 20 wpm test (with a different taped message), but Tom didn't realize that, so he assumed the second one was 13 wpm. He figured it was just his nerves that made it so hard. When we ran the third tape at 13 wpm, he assumed it was only five wpm and that really shook him up, because he was having trouble copying it and figured his XYL would really have a tough time. We let him leave thinking he could no longer copy slow code . . .

Two last notes. The sailor who kept telling Marine jokes to McGlade is still waiting for his license, and our Marine tells us he may wait a long, long time. Sensitive, those Marines. And finally, we need old headphones for the test sessions. If you have a set you can donate, contact any SARA member.

Spike - K9MX

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Anne Arundel Radio Club

Meetings: First and Third Thursdays at 8:00 p.m.
Davidsonville Family Recreation Center, Queen Anne Bridge &
Wayson Roads off Md. Rt 214 near Annapolis

On-the-Air Thursdays when there is no club meeting, 2030 Local on 147.705/105
Tuesdays at 2030 Local time on 28.410
The Chesapeake Bay Weather & Traffic Net on 147.705/105 at 1100 and 1500
every weekend day and public holiday from April 1 to November 15.
Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz

Address: P.O. Box 308, Davidsonville, MD 21035

Information: Margaret (Holly) Bevan, (301) 923-0229

At the club's program meeting on May 16th, Bob Bruninga - WB4APR discussed the U.S. Naval Academy Satellite Dish and some of its uses. Significant projects utilizing the dish include moonbounce communications and communications with the MIR Space Station and the Space Shuttle Atlantis. It was also used by the Academy ARC to send the first Amateur TV pictures to a shuttle.

Beginning at 1930 on the second Wednesday in July, and on every Wednesday thereafter, bulletins will be transmitted over the AARC 2-meter repeater (147.105) by Pete Hopping - KA3RFE, who holds an ARRL field appointment as an Official Bulletin Station.

At the clubhouse on May 11th, Oscar Ramsey - NV3G, Gordon Davids - WJ3K and David Gilmer - K3KM administered 44 exams to 19 persons. Twenty-eight exams were passed. There were 13 upgrades. Dean Alley - NS3V, Bill Aberg - KB3HX and Ham Molz - N3FDH were on hand to assist. The next exam date at the AARC Clubhouse will be July 13th.

We are very proud of Nancy Alley - NT3Z, Anne Arundel County Radio Officer. She was awarded the Most Outstanding Citizen Volunteer award by the Office of Emergency Management.

Nancy's OM, Dean - NS3V, accepted the award for Nancy from Anne Arundel County Executive Robert Neall on April 25th. Nancy could not receive the award in person because she was on bedrest status, pending the birth of her first child. Lorilei Michelle Alley arrived prematurely on May 17th. She weighed 3 pounds 10 ounces and was 17.3 inches long. Lorilei is doing well in St. Angles hospital and is expected to be able to go home before long.

Paul Gerhardt - WG3J is recuperating at home following major surgery. Send him cards at 1255 Stonewood Court, Annapolis, MD 21401.

We had fourteen new members in May (mostly from the recent Novice class). The enthusiasm and ambition of these new Hams must have been catching. There has been a flurry of upgrading; Bob White - N3JIP is now an Extra; Doug Sweely - N2IBM and John Becker - KA3YYY upgraded to Advanced; Ray Sofield - KA3YKM advanced to General. Brand new Techs include Karen Carter - KA3YYJ, Anna Walter - KA3YYX, Bill Pemberton - KA3YYR and Oliver Willis - KA3ZBP. In the new call category we have: Bob Usher - N3JIN, Charles Svenson - KA3YYE, Maureen Mulrooney - N3JNE and Richard Coles - N3JOE.

Holly - N3BMB

Armed Forces Day Operations

Three members of DOSARC manned military communications stations in the recent Armed Forces Day cross-band CW operation on May 18th. They were:

Tom Warren, K3TW, Coast Guard, NMH
Fred Laun, K3ZO, Air Force, AIR
John Swafford, W4HU, Air Force, AIR

Mt. Vernon Amateur Radio Club

Meetings: Second Thursday of Each Month, 7:30 p.m. (except December)
Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria
Repeater: WD4PDP/R 146.055 input 146.655 output
Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's)
Starts on 2-meter then moves to 10-meter on 28.405
Information: Chris Morrow, W4WYL (703)765-5964
Training Classes: John Forrest, WZ4A (703) 971-3905
Mailing Address: c/o Frank Mackey, N4GUS, 8072 Athena St., Springfield, VA 22153

We particularly THANK Dick - KB4DHD for helping make the May program a terrific success. We also THANK Dick - AB4JX for the marvelous idea. The program was the beginning of an on-going effort to recognize members of MVARC who have contributed greatly to Amateur Radio and/or MVARC. We honored eight members at this meeting and hope to honor one or two each month hereafter. Thanks also to Marci - KM4VM for a few words and ideas but most of the credit goes to Dick - KB4DHD and Dick - AB4JX.

We were happy to WELCOME three visitors: James Larkin, Jim Tomlinson - N2LWR and George Lasche - KB2AN. We hope they will join us again. We are also very happy to WELCOME WARMLY three new members: Richard Weinberg - N1GIL, Dave Clonts - N4JXF and Rich Adamy - KA4GFY. We are honored that you decided to become members.

By the time this goes to press, another Field Day will be history. I take this opportunity to thank everyone who came out to work the setup, make contacts, and help tear down.

Special thanks to the many cooks and we were awfully glad to see everyone at the picnic on Saturday. The main focus of Field Day for us is to have fun and I firmly believe a great time is always had by all. Til next year....

There will be another Novice class starting this Fall. Anyone who wants information should give John - WZ4A a call (703-971-3905). The class is free but you will need to obtain a text. John will be happy to add your name to the list!

After the settling of Field Day dust, the July meeting is scheduled to be a "flea fest" - an MVARC mini-hamfest. Club members will bring items they no longer want and sell or trade them. August will be a discussion and pictures about ham radio in Tanzania. September is currently scheduled to be the talk by Dr. Alan Robock (U. of MD) about nuclear winter which had to be postponed from the June meeting. We are looking forward to seeing everyone July 11th!

Marci - KM4VM

Laurel Amateur Radio Display at Main Street Festival



Vienna Wireless Society

25 Years of Public Service

Meetings: 2nd and 4th Fridays of each month, 7:30 p.m.
Vienna Community Center, 120 Cherry Street, Vienna, VA

Repeaters: K4HTA/R 146.085 in/146.685 out
222.340 in/223.940 out, 448.250 in/443.250 out

Nets: Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out.
Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz

Information: Pat Crosby, KA4FHK (703) 978-6316 (H); (301) 731-9800 (W)

Training Classes: Paul Wilkins, AB4CY (703) 560-2779

Mailing Address: P.O. Box 418, Vienna, VA 22183

The club's new 440 repeater is closer to its final destination. We are working hard to work out the last details so our repeater will be up and ready to be linked to our existing 2-meter repeater. Keep an eye on this column for further updates.

We have a 2-meter net on each Thursday night at 7:30 p.m. local time and would encourage all club members - AND non club members - to join in. If you are a new Amateur with a no-code Tech license, this is a good place to start to form the habits necessary to be a good Ham. All Amateur Radio operators are welcome. We also have a nightly 10-meter net on 28.400 at 9:00 p.m. each night except meeting nights. This is a very informative net and many a technical problem has been solved during this net.

A member of our club is celebrating a major milestone in his Amateur Radio career - 50 years in ham radio. Vern Hill - W4DZI was first licensed in May, 1941.

Congratulations, Vern. Many more happy years of Hamming.

Our training classes are proceeding well under the leadership of Paul - AB4CY and should yield a new crop of well trained hams. We will report the results of final testing as soon as classes are finished.

TO ALL NEW TECH/NO-CODE TECHs . . . Come join the VWS. We would like to help you learn about Amateur Radio and help you when you are ready to upgrade to the code portion. We are an active club and there are many ways you could help the local community or organizations. Come to one of our regular meetings and see for yourself. The dues are very small - \$5.00 for a full year's membership. If you have any questions about the club, please call me at home on (703) 978-6316. I will be happy to help.

Pat Crosby - KA4FHK

\$10,000 Computer Contest

The Johns Hopkins University is conducting a National Search for Computing Applications to Assist Persons with Disabilities. The search will run through February 1992 and the program is made possible by grants from the National Science Foundation and MCI Communications Corporation. Entries may address any physical, mental or learning disability and are due by August 23, 1991.

"Putting ingenuity and technology to work for people is our primary goal," says Paul Hazan, Project Director of the National Search. "Through this search, computer professionals have a unique opportunity to apply their creativity and expertise to address urgent human needs and make a significant difference," he said. "Applications are only limited by the imagination of the designer."

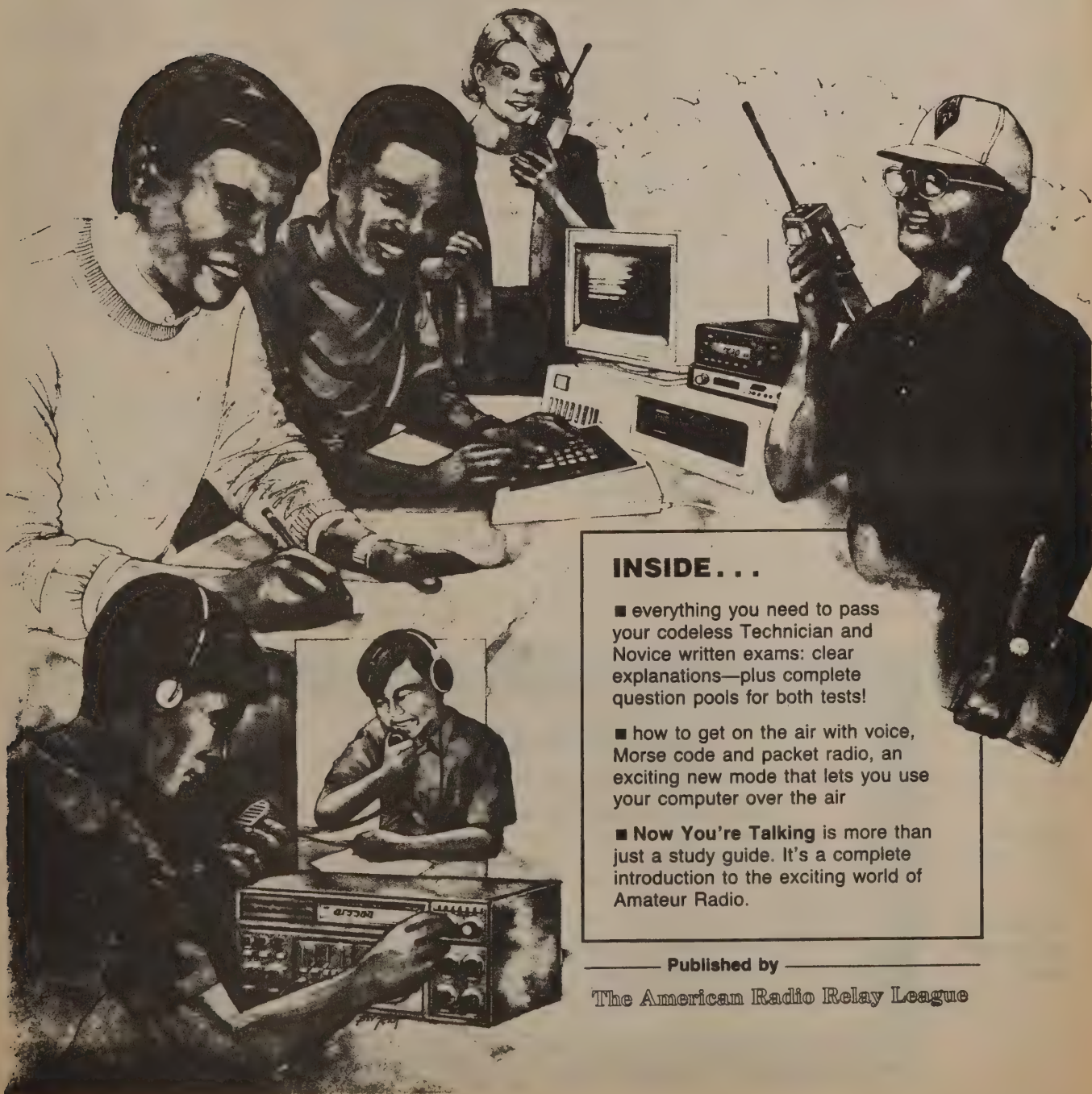
To obtain a flier giving details of the competition and how you can participate, write to:
Computing to Assist Persons with Disabilities
P.O. Box 1200
Laurel, MD 20723

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Published by

The American Radio Relay League

The Amateurs

There's something about them you've got to admire.
They work for the love of the task, not for hire.

Every one of them's blessed with the heart of a boy!
What's job to the drudged unto them is a joy.

While we to our regular schedules are keeping
The Amateurs do without eating or sleeping.

They worry their wives - since so short is a day -
They don't get to bed when they should, but they stay
Sending calls on the air; catching calls from afar -
And I think, as I hear them, how patient they are!

How much better we'd work here if only we knew
That Amateur spirit of wanting to do!

Professionals weary sometimes, and they shirk.
Since they're paid to perform they look on it as work.

They begin with reluctance; they're glad when they're through -
And they measure in money whatever they do;

But the Amateur never begrudges a minute;
He goes to the job for the joy that is in it.

So here's to the Amateurs - brave hearted throng -
Though short be their waves, may their live all be long;

May the wisdom they gain and the joys which they reap
Make up for the nights when they go without sleep.

And may we - in their spirit and deep understanding
Of work and its joy - keep our Amateur standing.

Apologies to Edgar A. Guest

And thanks to Thom Gooding - K4LHB *

* The above poem was found by K4LHB among a batch of equipment he bought from an estate not too long ago. It appears to be from the newsletter of the Detroit Amateur Radio Association in late 1956.

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Some Technical Corrections

By Charlie Anderson, NF3X

ARRL Technical Specialist

AA3G's article in the June Auto-Call concerning his vertical antenna [Simple Antenna Match, page 47] contains a few somewhat misleading points. Based on over 50 years of Amateur operating (a good deal of which has been with vertical antennas) and 45+ years experience with electronic systems in the aerospace industry, I feel some clarifications might be in order.

1: If I am correctly interpreting the diagram and text, what AA3G has described is not a $5/8$ -wavelength antenna; but an approximately 0.425 -wavelength antenna matched with a 0.2 -wavelength parallel line, plus some additional impedance transformation provided by the leads between the end of the coax and the matching section.

2: Anyone who is contemplating use of AA3G's antenna or a true $5/8$ -wave antenna should carefully read the article by Don Reynolds (K7DBA) in Volume 1 of The ARRL Antenna Compendium. OM Reynolds presents pattern measurement data which clearly point up the following.

(a) Use of a $5/8$ -wave antenna without a ground plane of any sort results in most of the radiated energy being directed above and below the horizon. The often-quoted 3db gain along the horizon is theoretical and could only be achieved with the antenna in the center of an infinite conducting plane.

(b) A $5/8$ -wave antenna installed above ground level with a small ground plane (let's say four $1/4$ -wave radials) will still exhibit undesirable pattern degradation because of the edge diffraction effect. This phenomenon causes the angle of maximum radiation to be elevated well above the horizon, plus significant radiation to be directed below the horizon. Indeed, K7DBA's measurements very clearly show that: "There appears to be very little to choose between the $1/4$ -wave and $5/8$ -wave whips on the $1/2$ -wave ground plane."* Keep in mind that a good deal of the below-horizon radiation will be absorbed by surrounding vegetation and/or lossy ground.

(c) With a $1/2$ -wave antenna on an HT, the measured performance was 2db better in the horizontal plane than with a $5/8$ -wave antenna! (See also Item 5 below).

(d) A cartop represents a finite, elevated ground plane, hardly more than one square wavelength at 144 MHz on a medium-size sedan. Therefore, the expected 3db gain cannot be realized. The radiated field from a $1/2$ -wave whip on a vehicle, according to K7DBA, is probably less sensitive to mounting location than the field from a $5/8$ -wave whip.

All of Don Reynolds data, by the way, were obtained using antenna measurement facilities at the University of Washington.

3: It should be mentioned that some mobile operators feel that longer whips, i.e., over $1/4$ -wavelength, may provide some measure of "diversity" reception with resultant reduction of "picket-fencing" in fringe areas. However, there should be little to choose between the $1/2$ -wave and the $5/8$ -wave whips in such situations, with the former having the advantage mentioned in 2(d).

4: The matching-section spacings mentioned in the article are wider than the 0.01 -wavelength maximum recommended in Chapter 24 of the ARRL Antenna Book, 15th Edition. At 28 MHz, even a 25-cm (10 inch) separation is quite a bit greater than the 10 cm or so which would be approximately 0.01 wavelength. As the spacing between conductors of a parallel line is increased, radiation from the line increases. This will result in reduction of the power radiated from the antenna, plus rf current on the outside of the coax line feeding the matching section. This, in turn, could cause higher RFI and TVI levels in the vicinity and in rf flowing into the shack.

5: Maryland-DC Section Technical Coordinator W3VFN has described a neat, lumped-constant-matching $1/2$ -wave whip assembly for HT use in Volume 2 of The ARRL Antenna Compendium. It's easy to build - parts from Radio Shack and/or your junk box.

6: I do heartily concur with OM AA3G's remarks concerning verticals! Using J-fed $1/2$ -wave antennas of two different types (one made with tubing and ladderline; the other scaled from WD4JNS's twin-lead 2-meter one shown in the Emergency Coordinator's Manual), I had fine results on 10 - with QRP - last Winter; and I'm anticipating another good season this Fall and Winter.

* K7DBA used a solid-metal circular ground plane, $1/2$ -wavelength in diameter.

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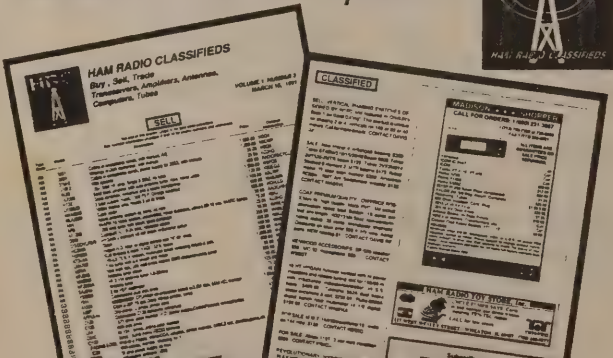
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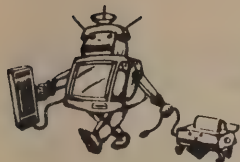
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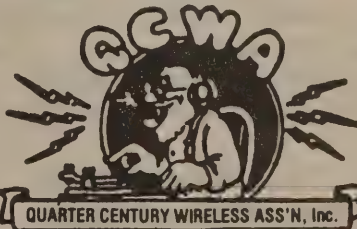
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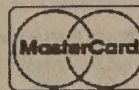
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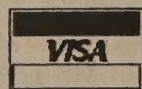
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